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BULLETIN No. 130-66

HYDROLOGIC DATA: 1966

Volume I: NORTH COASTAL AREA

UNIVERSITY OF CALIFORNIA
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JANUARY 1968

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

STATE OF CALIFORNIA
The Resources Agency
Department of Water Resources

BULLETIN No. 130-66

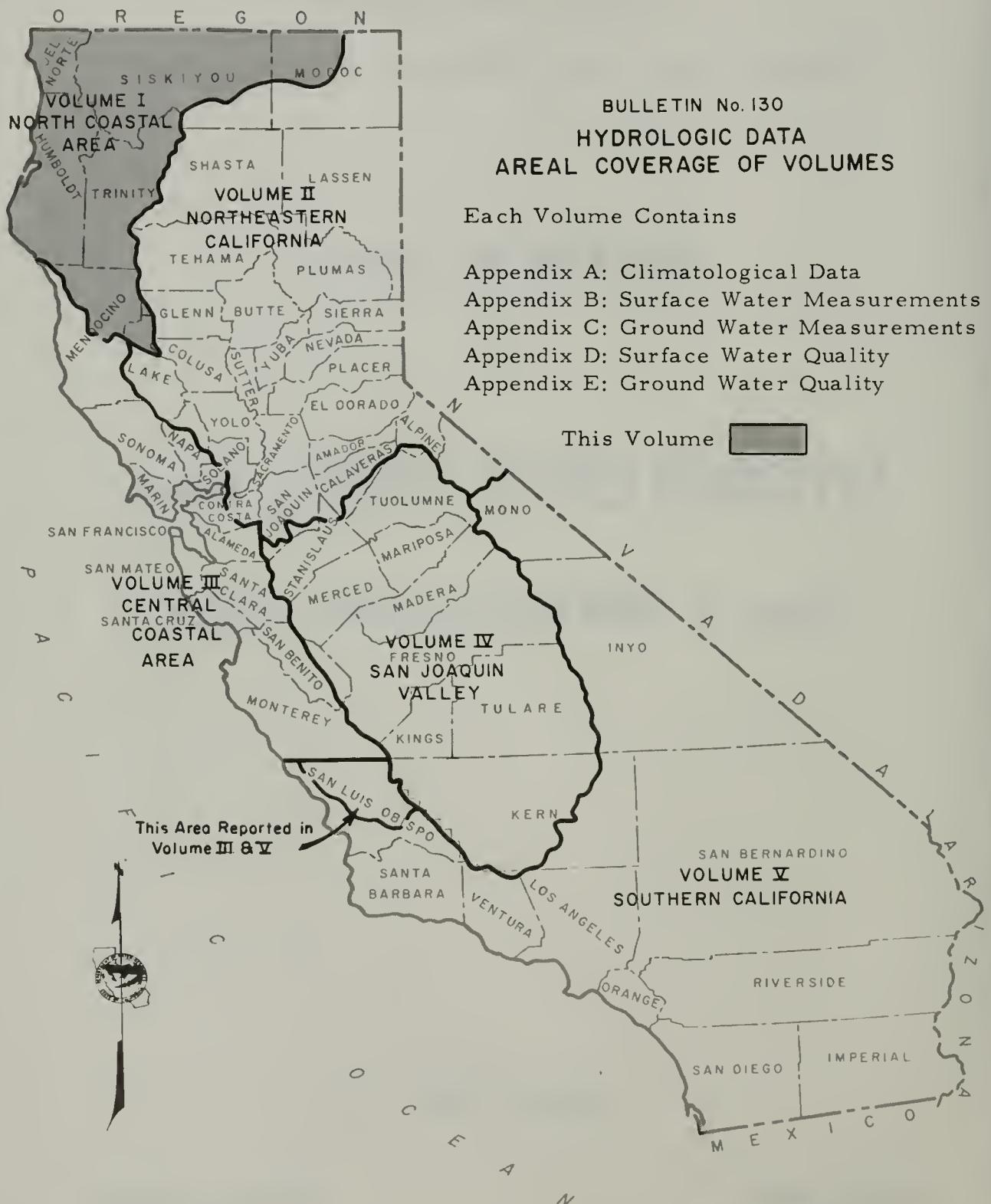
HYDROLOGIC DATA: 1966

Volume I: NORTH COASTAL AREA

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RONALD REAGAN
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FOREWORD

The hydrologic data programs of the Department of Water Resources supplement the activities of other agencies and help satisfy the specific needs of these agencies for data on the quality and quantity of water in the State. Bulletin No. 130-66 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map on the opposite page.

This volume presents data on climate, surface water flow, ground water levels, and surface and ground water quality in the North Coastal Area.

William R. Gianelli.

William R. Gianelli, Director
Department of Water Resources
The Resources Agency
State of California

November 17, 1967

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
Inch (in)	2.54 Centimeters
Foot (ft)	0.3048 Meter
Mile (mi)	1.609 Kilometers
Acre	0.405 Hectare
Square mile (sq. mi.)	2.590 Square kilometer
U. S. gallon (gal)	3.785 Liters
Acre foot (acre-ft)	1,233.5 Cubic meters
U. S. gallon per minute (gpm)	0.0631 Liters per second
Cubic feet per second (cfs)	1.7 Cubic meters per minute

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State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor
WILLIAM R. GIANELLI, Director, Department of Water Resources
JOHN R. TEERINK, Deputy Director

----- O -----

NORTHERN DISTRICT

Gordon W. Dukleth District Engineer

Wayne S. Gentry Chief, Operations Section

Activities covered by this report were under the supervision
of

Robert F. Middleton, Jr. Chief, Hydrologic Data Unit

Assisted by

Linwood L. Bates. Red Bluff Office

Walter D. McIntyre. Sutter Field Office

Lester L. Lighthall Climatological Data

Charles G. Hodge. Surface Water Measurements

Seth K. Barrett Ground Water Measurements

Lee R. Gibson Water Quality

Reviewed and coordinated by
Statewide Planning Office
Data Coordination Branch

ABSTRACT

The report contains tables showing data on climate, surface water flow, ground water levels, and surface and ground water quality in the North Coastal Area during the 1965-66 water year. Figures show the location of surface water measurement stations, surface water sampling stations, and ground water basins. A plate shows the location of climatological stations.

APPENDIX A

CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the North Coastal Area from July 1, 1965, to September 30, 1966. Storage gage precipitation data are reported annually. Fifty-five cooperating agencies and 65 local observers supplied the data.

To insure accuracy, stations are inspected either semiannually or annually to see that the equipment is properly maintained and that observations are generally taken in accordance with U. S. Weather Bureau standards.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

North Coastal Area

- F0 - Smith River
- F1 - Lost River-Butte Valley
- F2 - Shasta-Scott Valleys
- F3 - Klamath River
- F4 - Trinity River
- F5 - Mad River
- F6 - Eel River
- F7 - Mattole River

TABLE A-1 INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and the code symbols follows:

40-Acre Tract - This denotes the location of the station within the section in which it is located. The letter code is derived from the diagram to the right.

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian - The code for this column is as follows:

- H - Humboldt Base and Meridian
- M - Mount Diablo Base and Meridian

Cooperator Number - This number is assigned from the following list:

- 000 Private Cooperators
- 006 Northwestern Pacific Railroad
- 804 California Department of Beaches and Parks
- 805 California Department of Fish and Game
- 806 California Department of Water Resources
- 808 California Division of Forestry
- 809 California Division of Highways
- 900 U. S. Weather Bureau
- 901 Corps of Engineers, San Francisco District
- 905 U. S. Forest Service

Cooperator's Index Number - This is the number assigned to the station by the agency responsible for, or handling the records of, the station. The U. S. Weather Bureau number is only shown in this column when it differs from the alpha order number.

County - This is a standard code for California counties; those counties used in this appendix are shown below:

<u>County</u>	
Del Norte	08
Glenn	11
Humboldt	12
Lake	17
Mendocino	23
Siskiyou	47
Trinity	53
Modoc	25

TABLE A-1
INDEX OF CLIMATOLOGICAL STATIONS FOR 1965-66
NORTH COASTAL AREA

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude	Longitude	Cooperative Number	Cooperator's Index Number	Record Begun	Record Ended	Years Missing	County Code
Number	Name													
F6 0018	ADANAC LODGE	1100	SEC 14	T23N R17W	H M 39 50 48	123 42 00 00 000					1950		23	
F6 0088	ALDERPOINT	435	SEC 27	T03S R05E	H 40 11 00	123 36 00 900					1940		12	
F5 0253	ARCATA A P	217	SEC 19	T07N R01E	O H 40 58 18	124 05 24 000					1957		12	
F3 0715	BESWICK 7 S	6140	SEC 33	T47N R03W	M 41 52 00	122 14 00 900					1952		47	
F4 0738	BIG BAR RANGER STA	1270	SEC 05	T33N R12W	M 40 44 54	123 14 42 900					1943		53	
F5 0764	BIG LAGOON	100	SEC 18	T09N R01E	R H 41 09 36	124 05 54 000	PN2125				1947		12	
F2 0786-01	BIG SPRINGS 4 E	2955	SEC 05	T43N R04W	R M 41 35 30	122 19 42 000					1960		47	
F3 0899	BLUE CREEK MTN LO	4870	SEC 30	T12N R04E	R H 41 23 42	123 45 54 900					1960		08	
F5 0901	BLUE LAKE	105	SEC 30	T06N R02E	A H 40 52 54	123 59 12 000					1951		12	
F5 0903	BLUE LAKE REDWOOD CR	975	SEC 11	T06N R03E	H 40 55 00	123 49 00 900					1956		12	
F4 0929	BOARDCAMP MTN	4500	SEC 26	T04N R04E	H 40 42 12	123 42 00 000					1963		12	
F6 1046	BRANSCOMB 2 NW	1480	SEC 09	T21N R16W	M M 39 41 12	123 39 36 900					1959		23	
F1 1050	GRAY 10 WSW	5759	SEC 24	T43N R03W	M 41 34 00	122 08 00 900					1951		47	
F6 1080	BRIDGEVILLE 4 NNW	2050	SEC 27	T02N R03E	H 40 31 00	123 49 00 900					1954		12	
F6 1083	BRIDGEVILLE P O	650	SEC 11	T01N R03E	O H 40 28 06	123 48 00 000					1959		12	
F6 1181	BULL CREEK	410	SEC 36	T01S R01E	H H 40 21 00	124 06 30 000					1960		12	
F6 1210	BURLINGTON ST PARK	200	SEC 12	T02S R02E	D H 40 18 30	123 54 24 000					1950		12	
F4 1215	BURNT RANCH 1S	2150	SEC 23	T05N R03E	E H 40 47 48	123 28 48 900					1945		53	
F4 1215-15	BURNT RCH HMS	1500	SEC 14	T05N R03E	F H 40 48 30	123 26 30 000					1963		53	
F2 1316	CALLAHAN RANGER STA	3136	SEC 21	T40N R08W	M 41 18 00	122 48 00 900					1943		47	
F0 1446	CAMP SIX LOOKOUT	3700	SEC 31	T17N R03E	B M 41 49 48	123 52 24 000					1963		08	
F7 1505	CAPE RANCH	710	SEC 23	T01N R03W	F H 40 27 24	124 22 48 000					1959		12	
F3 1606	CECILVILLE 5 SE	2980	SEC 12	T37N R11W	M 41 06 00	123 03 00 900					1954		47	
F3 1799	CLEAR CREEK	975	SEC 07	T15N R07E	H H 41 42 30	123 26 54 900					1959		47	
F4 1886	COFFEE CREEK RS	2500	SEC 06	T37N R07W	M 41 05	122 42 900					1960		53	
F3 1990	COPCO DAM NO 1	2700	SEC 29	T48N R04W	P M 41 59 00	122 40 00 900					1928		47	
F6 2081	COVELO	1385	SEC 12	T22N R13W	M 39 47 00	123 15 00 900					1921		23	
F6 2084	COVELO EEL RIVER RS	1514	SEC 28	T23N R11W	M 39 50 00	123 05 00 900					1940		23	
F0 2147	CRESCENT CITY 1 N	40	SEC 20	T16N R01W	H 41 46 00	124 12 00 900					1885		08	
F0 2148	CRESCENT CITY 7ENE	120	SEC 08	T16N R01E	H 41 48 00	124 05 00 900					1913		08	
F0 2150	CRESCENT CITY HMS	50	SEC 20	T16N R01W	H 41 46 00	124 12 00 900					1941		08	
F0 2152	CRESCENT CITY 11 E	360	SEC 30	T16N R02E	B H 41 45 18	123 59 30 000					1947		08	
F1 2188	CROWDER FLAT	5175	SEC 20	T47N R11E	K M 41 53 00	120 44 00 000	PN2188				1958		25	
F6 2218	CUMMINGS	1270	SEC 21	T23N R16W	M 39 50 00	123 36 00 900					1927		23	
F1 2480	DORRIS INSPECT STA	4240	SEC 36	T48N R01W	R M 41 57 18	121 54 30 000					1959		47	
F6 2490	DOS RIOS	927	SEC 31	T22N R13W	M 39 43 00	123 21 00 900					1917		23	
F0 2749	ELK VALLEY	1711	SEC 34	T19N R04E	H 42 00 00	123 43 00 900					1938		08	
F2 2899	ETNA	2912	SEC 28	T42N R09W	M 41 28 00	122 54 00 900					1935		47	
F6 2910	EUREKA WB CITY	43	SEC 22	T05N R01W	H 40 48	124 10 00 900					1828		12	
F7 3025	FERNDALE 8 SSW	1445	SEC 06	T01N R02W	P H 40 29 30	124 20 24 900					1959		12	
F6 3030	FERNDALE 2NW	10	SEC 34	T03N R02W	K H 40 35 54	124 16 38 900					1963		12	
F5 3041	FIELDBROOK 4 D RCH	285	SEC 36	T07N R01E	P H 40 36 36	124 01 08 000					1950		12	
F3 3122	FOOTHILL SCHOOL	2960	SEC 25	T46N R05W	F M 41 48 42	122 22 18 000					1962		47	
F4 3130	FOREST GLEN	2340	SEC 22	T01S R08E	H 40 23 00	123 20 00 900					1930		53	
F3 3151	FORKS OF SALMON	1270	SEC 24	T10N R07E	A H 41 15 12	123 14 00 900					1959		47	
F0 3173	FORT DICK	46	SEC 14	T17N R01W	H 41 52 00	124 09 00 900					1951			
F2 3176	FORT JONES 6 ESE	3324	SEC 12	T43N R08W	M 41 35 00	122 43 00 900					1941		47	
F2 3182	FORT JONES RANGER ST	2720	SEC 02	T43N R09W	C M 41 36 00	122 51 00 900					1936		47	
F6 3194	FORTUNA	60	SEC 35	T03N R01W	Q H 40 36 00	124 09 00 000					1955		12	
F6 3217	FOX CAMP	2500	SEC 09	T02S R01E	R H 40 18 24	124 03 54 811					1960		12	
F6 3320	GARBERVILLE	340	SEC 24	T04S R03E	H 40 06 00	123 48 00 900					1938		12	
F6 3322-01	GARBERVILLE HMS	540	SEC 24	T04S R03E	G H 40 06 00	123 47 40 809					1935		12	
F0 3357	GASQUET RANGER STA	384	SEC 21	T17N R02E	N H 41 52 00	123 58 00 900					1940		08	
F2 3361-03	GAZELLE - EPPERSON	2760	SEC 17	T43N R06W	J M 41 34 18	122 33 12 000					1950		47	
F2 3363	GAZELLE LOOKOUT	5200	SEC 08	T41N R07W	J M 41 24 30	122 40 30 000					1956		47	
F2 3363-05	GAZELLE TUCKER	2690	SEC 16	T43N R06W	M 41 34 30	122 32 36 000					1964		47	
F1 3564	GRASS LAKE HMS	5080	SEC 28	T44N R03W	G M 41 37 48	122 11 30 900					1954		47	
F2 3614	GREENVIEW	2818	SEC 29	T43N R09W	M 41 33 00	122 24 00 900					1943		47	
F6 3647	GRIZZLY CRK REDWOOD	500	SEC 11	T01N R02E	H 40 29 00	123 47 00 900					1963		12	
F3 3761	HAPPY CAMP RANGR STA	1090	SEC 11	T16N R07E	H 41 48 00	123 23 00 900					1914		47	
F6 3785	HARRIS 7 SSE	1910	SEC 27	T05S R05E	N H 39 59 24	123 36 42 000					1953		23	
F6 3810	HARTSOOK INN	470	SEC 24	T05S R03E	D H 40 00 48	123 47 30 000					1957		12	
F4 3859	HAYFORK RANGER STA	2340	SEC 12	T31N R12W	R M 40 33 00	123 10 00 900					1915		53	
F4 3949	HIDDEN VALLEY RCH	1978	SEC 32	T01N R07E	M H 40 24 54	123 24 30 000					1959		53	
F6 3956	HIGH ROCK	900	SEC 15	T01S R02E	K H 40 22 48	123 56 30 808					1960		12	
F3 3987	HILTS	2900	SEC 23	T48N R07W	M 42 00 00	122 38 00 900					1939		47	
F6 4037-02	HOLMES	150	SEC 33	T01N R02E	R H 40 25 06	123 57 06 000					1954		12	
F7 4074	HONEYDEW 2 WSW	380	SEC 02	T03S R01W	C H 40 14 18	124 09 06 000					1953		12	
F7 4074-01	HONEYDEW HUNTER	380	SEC 02	T03S R01W	M H 40 14 18	124 09 06 000					1955		12	
F5 4077	HONOR CAMP 42	1875	SEC 31	T07N R03E	K H 40 56 48	123 52 42 000					1956		12	

TABLE A-1 (Continued)
INDEX OF CLIMATOLOGICAL STATIONS FOR 1965-66
NORTH COASTAL AREA

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Name Number	Record Began	Record Ended	Years Missing	County Code
Number	Name													
F4 4082	HOOPA	350	SEC 25	T05N R04E	H 41 03 00	123 40 00	900				1941		12	
F4 4084	HOOPA 2 SE	315	SEC 31	T05N R05E	H 41 04 00	123 39 00	900				1954		12	
F4 4191	HYAMPOM	1260	SEC 25	T03N R06E	H 40 37 00	123 28 00	900				1940		53	
F0 4202	IDLEWILDE HMS	1250	SEC 06	T17N R04E	O H 41 54 00	123 40 12	900				1946		08	
F3 4577	KLAMATH	25	SEC 15	T13N R01E	H 41 31 00	124 02 00	900				1941		08	
F6 4587	KNEELAND 10 SSE	2356	SEC 13	T03N R02E	H 40 36 00	123 54 00	900				1954		12	
F5 4602	KORBEL	150	SEC 28	T06N R02E	P H 40 52 00	123 57 30	900				1937		12	
F6 4690	LAKE MOUNTAIN		SEC 21	T05S R07E	H 40 01 00	123 24 00	900				1939		53	
F6 4698	LAKE PILLSBURY NO 2	1740	SEC 10	T18N R10W	M 39 25	122 22 00	900				1964		17	
F1 4838	LAVA BEDS NAT MON	4770	SEC 28	T45N R04E	H M 41 43 48	121 50 30	900				1940		06	47
F6 4851	LAYTONVILLE	1640	SEC 01	T21N R15W	M 39 42 00	123 27 00	900				1940		23	
F3 4982	LITTLE RIVER	150	SEC 31	T06N R01E	P H 41 01 34	124 06 30	900				1949		12	
F2 4984-02	LITTLE SHASTA	2725	SEC 26	T45N R05W	C M 41 42 00	124 25 00	000				1960		47	
F1 5081-01	LONG BELL STATION	4375	SEC 20	T42N R05E	B M 41 26 00	121 25 00	000				1958		25	
F5 5244	MAO RIVER RANGER STA	2775	SEC 17	T01N R06E	H 40 27 00	123 32 00	900				1943		53	
F1 5505	MEOICINE LAKE	6660	SEC 10	T43N R03E	M 41 35 00	121 37 00	900				1946		47	
F6 5676	MINA 3 NW	2875	SEC 28	T05S R07E	A H 40 00 06	123 23 30	900				1927		53	
F6 5711	MIRANOA 4 SE	263	SEC 30	T03S R04E	H 40 11 00	123 47 00	900				1964		12	
F6 5713	MIRANOA SPENGLER RCH	400	SEC 19	T03S R04E	H 40 14 00	123 46 00	900				1959		12	
F2 5783	MONTAGUE	2500	SEC 27	T45N R06W	W M 41 43 42	122 31 36	000	045783	1888		05	47		
F2 5785	MONTAGUE 3 NE	2640	SEC 18	T45N R05W	M 41 45 00	122 28 00	900				1948		47	
F1 5941	MOUNT HEBRON R S	4250	SEC 32	T46N R01W	M 41 47 00	122 00 00	900				1942		47	
F4 6032	MUMBO BASIN	5700	SEC 35	T39N R08W	E M 41 12 00	122 32 00	900				1946		53	
F6 6050	MYERS FLAT	190	SEC 30	T02S R03E	H 40 15 00	122 24 00	000				1950		12	
F3 6328	OAK KNOLL RANGER STA	1963	SEC 12	T46N R09W	M 41 50 00	122 51 00	900				1942		47	
F6 6408	OLE HARRIS	2229	SEC 30	T04S R05E	G H 40 05 00	123 39 42	000				1956		12	
F5 6497-01	ORICK 3 NNE	50	SEC 22	T11N R01E	K H 41 19 24	124 02 30	900				1970		12	
F5 6497-02	ORICK ARCATA REDWOOD	75	SEC 22	T11N R01E	K H 41 19 24	124 02 30	900				1974		12	
F5 6498	ORICK PRAIRIE CREEK	161	SEC 02	T11N R01E	H 41 16 00	124 01 32	900				1957		12	
F3 6508	OREANS	403	SEC 31	T11N R01E	H 41 16 00	123 32 00	900				1962		12	
F5 6745	PATRICKS PT ST PK	250	SEC 26	T09N R01W	L H 41 08 12	124 09 00	804				1947		12	
F7 6835-01	PETROLIA	175	SEC 03	T02S R02W	L H 40 19 30	124 16 48	000				1958		12	
F7 6835-02	PETROLIA 4 NW	900	SEC 19	T01S R02W	D H 40 22 24	124 16 30	000				1953		12	
F6 6851-15	PHILLIPSPVLE 1SE	300	SEC 19	T03S R04E	B M 40 11 42	123 40 00	000				1963		12	
F6 6976	PLASKETT	6980	SEC 27	T22N R09W	A M 39 44 12	122 51 24	000				1960		11	
F6 7404	RICHARDSON GROVE	500	SEC 13	T05S R03E	H 40 02	123 41	900				1961		12	
F4 7698	SALYER RANGER STA	623	SEC 14	T06N R05E	H 40 55 00	123 35 00	900				1951		53	
F3 8025	SAWYERS BAR R S	2169	SEC 20	T40N R11W	M 41 16 00	123 08 00	900				1951		47	
F6 8045	SCOTIA	139	SEC 07	T01N R01E	H 40 24 00	124 06 00	900				1950		12	
F3,8083-01	SEITAO VALLEY R S	1371	SEC 11	T46N R12W	R M 41 50 36	123 11 42	900				1955		47	
F7 8162	SHELTER COVE	55	SEC 16	T05S R01E	H 40 02	124 04	900				1959		12	
F6 8163	SHERWOOD VALLEY	2170	SEC 32	T20N R14W	F M 39 32 36	123 26 30	901				1958		23	
F0 8311-01	SMITH RIVER 2 WNW	195	SEC 21	T18N R01W	A H 41 26 30	124 10 42	000				1951		08	
F3 8346	SOMESBAR 1W	520	SEC 04	T11N R06E	H 41 23 00	123 29 00	900				1974		12	
F3 8346 05	SOMESBAR UKONOM R.S.	727	SEC 33	T12N R06E	H 41 23 00	123 28 00	905	PN891Y	1965				12	
F6 8490	STANDISH HICKIEY PARK	850	SEC 03	T23N R17W	F M 39 24 30	123 43 30	900				1949		23	
F6 8668	SUNNY BRAE	70	SEC 33	T06N R01E	H 40 24 00	124 04 00	000				1960		12	
F4 9024	TRINITY DAM VISTA PT	2500	SEC 16	T34N R08W	M 40 48 00	122 40 00	900				1979		53	
F1 9053	TULELAKE	4035	SEC 06	T47N R05E	M 41 58 00	121 26 00	900				1952		47	
F1 9057	TULELAKE INSP STN	4408	SEC 31	T44N R07E	F M 41 36	121 12	000	049057	1959				25	
F7 9177	UPPER MATTOLE	255	SEC 33	T02S R01W	H 40 15 00	124 11 00	900				1966		12	
F4 9490	WEAVERVILLE RANGER S	2050	SEC 12	T33N R10W	M 40 44 00	122 26 00	900				1969		53	
F2 9499	WEED FO	3593	SEC 01	T41N R05W	M M 41 26 00	122 23 00	900				1957		47	
F6 9527	WEOTT 2SE	600	SEC 12	T02S R02E	H 40 18 29	123 55 40	000				1961		12	
F7 9654	WHITEHORN	1050	SEC 15	T05S R02E	E M 40 01 18	123 56 12	000				1962		12	
F6 9684	WILLITS 1 NE	1350	SEC 17	T16N R13W	M 39 25 00	123 21	900				1950		23	
F6 9685	WILLITS HOWARD RS	1925	SEC 05	T17N R13W	M 39 21 00	123 19 00	900				1935		23	
F6 9686	WILLITS NW PAC RR	1365	SEC 18	T18N R13W	L M 39 24 12	123 21 06	006				1911		05	23
F1 9691-02	WILLOW CREEK RANCH	5200	SEC 06	T46N R11E	G M 41 50	120 45	900	PN894	1960			25		
F2 9866	YREKA	2631	SEC 27	T45N R07W	M 41 43 00	122 36 00	900				1871		47	
F6 9940	ZENIA 1 SSE	2880	SEC 22	T03S R06E	G H 40° 11 18	123 26 54	000				1950		53	

TABLE A-2
PRECIPITATION DATA
NORTH COASTAL AREA

Station Name	1965												1966						Total Oct. To Sept. 30
	Total July To June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.			
NORTH COASTAL AREA																			
SMITH RIVER	.02	.05	.07	.05	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	
CRESCENT CITY LN	64.03	64.35	107.00	107.00	76.91	76.91	76.91	76.91	76.91	76.91	76.91	76.91	76.91	76.91	76.91	76.91	76.91	76.91	
CRESCENT CITY TIME	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
CRESCENT CITY IRIS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
CRESCENT CITY 11F	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
ELK VALLEY	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
FORT DICK LNU	.05	.13	.03	.13	.03	.06	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	
GASQUE RANGER STA	77.01	76.14	76.39	76.39	74.22	74.22	74.22	74.22	74.22	74.22	74.22	74.22	74.22	74.22	74.22	74.22	74.22	74.22	
IDLEWILD IRIS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
SMITH RIVER 77WW	.01	.05	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
LOST RIVER-BUTTE VAL	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
DORRIS INSPECT STA	.05	1.63	.00	.04	2.39	1.14	.94	.45	.54	.56	.67	.61	.17	.17	.34	.16	.25	.16	
GRASS LAKE IRIS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LAVA BEDS NAT MON	11.15	11.36	11.53	11.53	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	10.42	
MOUNT HEBRON R. C	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
TULELAKE	.26	.07	1.90	.03	.06	2.76	.69	.23	.36	.29	.69	.55	.55	.55	.35	.35	.35	.35	
TULELAKE INSPECT STA	10.71	7.72	1.14	1.14	—	2.75	1.20	.95	.77	.59	.72	.13	.09	.09	.20	.09	.09	.09	
WILLOW CREEK RANCH	—	.00	2.64	.00	.07	2.46	—	.15	1.14	1.01	.88	.33	.00	.00	—	—	—	—	
SHASTA-SCOTT VALLEYS																			
BIG SPRINGS 4E	6.28	.09	1.33	.00	.00	1.33	.60	.73	.25	.50	.18	.30	.03	.04	.45	.34	.34	.34	
CAILLAHAN RANGER STA	15.54	18.19	1.33	.08	.04	4.83	3.06	2.76	.60	.78	.77	1.12	.17	.21	.04	1.01	1.54	1.54	
ETNA	—	—	—	—	—	2.42	3.37	7.76	.16	1.52	.93	1.08	.20	.00	.04	1.01	1.57	1.57	
FORT JONES 6ESE	15.61	19.50	.00	1.64	.52	.11	1.93	2.37	4.73	.16	1.83	.67	.73	.65	.81	.12	.94	.94	
FORT JONES RANGER S	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
GAZELLE EPPERSON	8.87	6.0	1.55	.00	.05	1.74	.69	1.80	.00	.82	.31	.99	.32	.42	.18	1.15	8.44	8.44	
GAZELLE TUCKER	7.48	3.1	1.26	.01	.05	1.68	.77	6.99	.03	.70	.31	.78	.58	.05	.05	.95	6.84	6.84	
GREENVIEW	—	—	—	—	—	—	—	1.76	5.00	.16	1.74	.70	.10	.06	.03	.84	—	—	
LITTLE SHASTA	7.14	.00	1.60	.00	.06	1.77	.87	1.50	.50	1.20	.45	.65	.58	1.04	.30	.60	9.42	9.42	
MONTAGUE	9.43	.41	1.57	.27	.00	1.71	1.33	2.01	.54	.47	.62	.23	.23	.21	.21	.86	8.86	8.86	
MONTAGUE 3NE	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
WEED FIRE DEPT	19.39	1.32	1.56	.01	.02	8.44	1.23	3.10	1.50	.83	.57	.16	.40	.40	.73	17.46	17.46	17.46	
YREKA	14.13	.31	0.46	.75	.75	2.17	1.92	3.50	.56	.42	.69	.27	.21	.21	.10	1.08	12.07	12.07	12.07

T Trace

— No record or record incomplete

TABLE A-2 (Continued)
PRECIPITATION DATA
NORTH COASTAL AREA

Station Name	1965			1966									Total Oct. 1 To Sept. 30			
	Total July 1 To June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NORTH COASTAL AREA																
KLAWATH RIVER																
CEDARVILLE 5SE	1.20	.00	.53	4.73	8.29	21.44	3.08	1.56	2.13	1.65	.88	.23	.14	.26	1.27	29.59
CLEAR CREEK	.74	.00	1.35	9.49	12.77	3.76	.57	1.60	.46	.39	.33	.09	.35	.16	1.22	63.98
COCO DAM NO. 1	.26	.00	.05	3.25	1.72	3.47	.74	1.39	.42	.46	.37	.46	.37	.09	.50	13.47
FOOTHILL SCHOOL	.14	.04	—	3.10	1.19	2.47	2.06	6.46	2.21	.23	.40	.00	.46	.71	.63	12.04
FORKS OF SALMON	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
HAPPY CAMP RANGER STA	1.21	2.20	.00	1.19	8.35	10.99	16.99	2.40	10.15	1.97	.47	.18	.22	.07	1.24	53.10
HILLS	.82	1.76	.00	1.18	3.05	2.51	7.19	7.79	1.25	.43	.50	.66	.10	.78	.71	17.00
KLAMATH	.00	1.72	.00	1.95	10.82	20.52	6.79	12.86	2.85	1.10	.66	.20	.25	.23	.39	71.36
OAK KNOB R 3	.33	.65	.00	.36	3.16	4.28	7.02	1.57	2.75	.77	.59	.35	.00	.36	.25	—
ORELEANS	46.74	1.68	.00	1.25	7.62	7.02	14.70	3.31	8.11	2.70	.00	.35	.00	.89	.89	46.31
SAWYER BAR R S	.28	.94	.00	.69	7.32	6.14	11.35	1.69	5.38	.51	.25	.00	.19	.90	.36	35.38
SEASIDE VALLEY R 2	43.16	.39	.25	.79	5.57	9.00	14.20	1.57	7.04	.31	.18	.04	.04	.97	.41	41.71
SOMEWHERE IN SONOMA-DONOMA R S	—	.00	2.02	—	1.09	9.16	16.64	3.15	3.31	.34	.00	.39	.00	.93	.93	—
TIDWELL RIVER	56.26	.00	1.93	1.30	9.80	8.85	17.59	3.08	9.92	3.42	.05	.32	.05	.28	1.07	55.73
BIG BAR RANGER STA	.96	.00	.50	8.96	4.74	9.42	2.70	3.26	1.74	.42	.68	.04	.16	.35	.35	32.97
BURNT RANCH 1S	45.60	.00	.97	.88	10.49	6.70	13.77	4.47	5.45	1.75	.63	.58	.53	.25	.66	46.16
BURNT RANCH HS	42.00	.00	.90	.00	.69	9.94	5.13	10.56	4.08	2.84	.71	.45	.60	.04	1.00	42.80
COFFEE CREEK R 2	—	.00	1.94	.10	16.35	8.70	14.48	6.77	6.77	1.40	1.40	—	—	.64	—	—
FOREST GLEN	47.85	.74	.00	.54	16.16	6.43	9.22	4.30	7.97	2.13	.29	.07	.25	.24	.73	48.33
HAWTHORPE RANGER STA	21.46	.00	.90	.18	8.85	*	11.70	12.19	3.15	.90	.44	.34	.40	.15	.37	29.48
HIDDEN VALLEY RANCH	42.11	.78	.00	.88	1.45	9.61	7.53	16.73	5.38	8.67	2.16	.25	.26	.71	.53	42.53
HOPKA	5e.73	.01	1.09	.00	1.47	9.45	7.09	16.32	2.82	9.75	2.05	.35	.34	.32	1.39	53.81
HOPKA 2SE	50.73	.00	.50	.00	.46	9.28	—	11.14	4.38	3.83	1.28	.15	.29	.20	2.11	52.40
HYPROM	—	—	—	—	—	—	—	—	—	—	—	—	—	.55	.55	—
SAYLER RANGER STA	42.59	.02	.88	.00	.97	10.49	*	17.63	4.10	6.09	1.67	.24	.20	.51	.00	.80
TRINITY DAM VISTA PT	29.17	.00	1.71	.05	.19	9.46	2.91	7.41	2.80	2.98	.19	.00	.12	.48	27.98	—
WEAVERVILLE R S	31.22	.00	1.75	.07	.10	8.32	4.11	8.38	3.35	3.07	1.58	.31	.21	.10	.34	29.87
MAD RIVER																
ARCATA AIRPORT	43.29	.00	.68	.01	1.05	7.17	7.44	12.58	3.97	7.94	1.65	.10	.70	.46	.50	1.68
BIG LAGOON	58.88	.00	.75	.00	1.18	10.12	8.36	18.52	5.17	11.25	2.03	.00	.87	.48	.51	62.04
BLUE LAKE REDWOOD CH	41.85	.02	.28	.00	1.18	7.37	6.32	—	—	8.17	1.89	.09	.52	.46	.59	44.36
FIELDROOK 4D RANCH	—	—	—	—	—	1.90	13.05	—	—	—	4.70	.05	.60	.53	.92	—

T Trace

— No record or record incomplete

* Amount included in the following measurement; time distribution unknown.

TABLE A-2 (Continued)
PRECIPITATION DATA
NORTH COASTAL AREA

Station Name	Precipitation in Inches												Total Oct. 1 To Sept. 30				
	Total July 1 To June 30	July	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
NORTH COASTAL AREA																	
MAD RIVER	60.20	.00	.57	.00	2.11	10.14	8.02	18.25	5.44	10.97	3.81	.18	.71	.91	.33	1.72	62.59
HONOR CAMP 42	44.46	.00	.32	.00	1.23	8.22	7.74	12.57	4.19	7.61	2.09	.00	.49	.59	.46	1.61	46.70
KOREKEL	49.89	.00	.31	.00	1.43	9.20	8.86	15.18	4.52	9.26	2.24	.15	.84	.30	.46	2.35	52.59
LITTLE RIVER	56.07	.00	.81	.00	1.05	13.72	11.87	18.00	5.76	7.66	2.17	.17	.71	.49	.86	1.00	57.61
MAD RIVER RANGER STA	66.38	.00	1.31	.00	1.82	10.50	11.87	6.70	12.21	2.99	.17	.81	—	—	—	—	—
ORICK 3MNE	59.47	.00	1.32	.00	1.66	9.85	11.35	14.21	5.87	11.60	2.78	.18	.65	.51	.61	3.06	62.33
ORICK ARDATA REDWOOD	66.06	.00	1.53	.08	1.74	10.15	12.66	17.78	6.29	12.50	2.34	.11	.88	.67	.56	2.65	68.33
ORICK FAILURE CR PK	65.93	.00	1.17	.00	1.37	14.29	13.42	25.23	8.96	17.42	2.95	.12	1.00	.00	.56	2.56	87.88
PATRICKS PT STATE PK	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
EEL RIVER	60.95	.00	.28	.00	.96	14.79	9.70	18.68	7.15	6.24	2.86	.29	.00	.20	.66	61.53	
ADANAC LODGE	47.51	.00	.59	.00	.74	6.62	6.62	15.20	5.35	6.21	1.76	.02	.09	.30	.85	48.14	
ALDERPOINT	68.78	.07	.46	.00	1.28	14.02	9.96	23.29	7.92	8.17	3.51	.03	.07	.22	.63	69.10	
BRANDSCOMB 2NW	54.30	.00	1.67	.00	1.11	12.81	* —	24.03	4.04	6.89	2.68	.56	—	.04	.57	54.34	
BRIDGEVILLE 4NW	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
BRIDGEVILLE P O	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
BULL CREEK	61.94	.00	.42	.00	.52	14.50	9.52	20.40	9.08	10.80	2.54	.08	.17	.00	.44	1.01	70.60
BURLINGTON STATE PK	40.35	.00	1.84	.00	.39	10.62	9.09	18.01	7.77	9.37	2.04	.04	.18	.42	.19	63.13	
COCOVEL CO	59.12	.00	.12	.00	.27	10.57	10.57	19.10	4.00	12.36	1.36	.01	.02	.00	.39	38.97	
CUMMINGS	—	—	—	—	—	12.81	10.48	16.12	7.81	9.17	2.71	.01	.00	.00	.22	.62	59.68
DOS RIOS	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
EUREKA W B CITY	32.31	.00	.36	.00	.70	5.20	5.99	13.13	4.63	4.34	1.49	.00	.00	.00	.25	.50	34.03
FERNDALE 2NW	36.69	.07	.35	.06	.74	7.01	6.58	9.44	5.22	3.12	6.77	1.34	.06	.30	.22	.44	36.12
FORTEINA	38.47	.00	.20	.00	.57	7.77	5.26	10.14	3.85	6.37	1.39	.03	.36	.36	.22	.44	39.97
FOX CAMP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
GARBERVILLE	52.00	.02	.36	.00	.56	11.03	9.51	14.93	5.23	7.49	2.11	.18	.58	.00	.30	1.16	53.08
GARBERVILLE HWS	48.63	.00	.30	.00	.32	13.52	7.61	13.02	—	5.97	1.91	.00	.37	.00	.31	1.22	49.86
GRIZZLY CRK REDWOOD	—	—	—	—	—	—	—	—	—	—	—	—	—	—	.51	—	
HARRIS TSSE	53.65	.00	.42	.00	.74	12.46	6.72	17.84	7.15	5.68	2.64	.00	.00	.27	.88	.38	54.38
HARPSKOK INN	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HIGH ROCK	59.67	.00	.28	.00	.32	16.07	9.18	16.64	6.97	7.71	.92	.32	.26	.45	1.07	60.91	
HOMES	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
KOMEELAND LOSSE	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LAKE MOUNTAIN	50.05	.00	.47	.00	1.16	10.58	8.78	13.12	—	2.43	.24	.04	.57	.25	.52	1.25	50.44
LAKE PILLSBURY NO. 2	42.22	.00	.74	.00	.82	12.84	8.18	17.35	7.66	2.39	.00	.07	.16	.29	.29	.68	42.03
LAKE PILLSBURY NO. 2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	.00	.58	.21

T Trace

— No record or record incomplete
* Amount included in the following measurement; time distribution unknown.

TABLE A-2 (Continued)
PRECIPITATION DATA
NORTH COASTAL AREA

Station Name	1965												1966												Total Oct. 1 Ta Sept. 30			
	Total July 1 To June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.												
NORTH COASTAL AREA																												
EEL RIVER	.02	.55	.00	.58	—	7.55	15.08	5.53	.05	.03	.00	.19	.39	—	—	—	—	—	—	—	—	—	—	—	48.74			
LATONVILLE	.00	.82	—	.80	—	5.36	11.01	5.66	2.42	.00	—	.70	.32	—	—	—	—	—	—	—	—	—	—	—	—			
MINA 3NW	.0	.12	.0	.12	—	6.8	6.83	6.17	6.87	1.47	T	.00	.00	—	—	—	—	—	—	—	—	—	—	—	—			
MIRANDA STENGLER RCH	—	—	—	—	—	11.04	7.81	16.88	6.13	2.24	.05	.19	.00	.35	1.06	—	—	—	—	—	—	—	—	—	—			
MYERS FLAT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
OLD HARRIS	.00	.41	.01	.02	—	9.42	14.93	6.85	8.10	3.47	T	.25	.36	1.14	58.83	—	—	—	—	—	—	—	—	—	—			
PHILLIPSVILLE 1SE	.00	.28	.00	.51	11.11	6.85	15.28	6.28	6.74	2.09	.02	.30	.40	1.68	51.26	—	—	—	—	—	—	—	—	—	—	—		
RICHARDSON GROVE	.00	.24	.00	.75	12.67	9.68	16.33	8.28	6.22	3.23	T	.21	.21	1.21	60.53	—	—	—	—	—	—	—	—	—	—	—		
SCOTIA	.00	.15	.00	.39	11.25	9.79	14.24	5.95	6.08	1.31	.08	.37	.03	1.13	47.96	—	—	—	—	—	—	—	—	—	—	—		
SHERWOOD VALLEY	.05	.76	.44	.68	16.20	7.21	12.12	6.92	5.90	3.77	.00	.11	.00	.07	.35	53.33	—	—	—	—	—	—	—	—	—	—	—	
STANDISH HICKORY PK	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
SUNNY BRAE	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
WEOUT 2SE	.00	.36	.00	.51	13.52	9.22	16.49	7.35	6.50	2.05	.13	.21	.43	.00	1.13	59.54	—	—	—	—	—	—	—	—	—	—	—	
WILLITS 1NE	.04	.41	.02	.83	10.94	6.32	12.73	5.89	3.90	2.56	.00	.07	.23	.48	43.95	—	—	—	—	—	—	—	—	—	—	—		
WILLITS HOWARD R S	.03	.57	.00	.64	11.05	5.73	12.65	6.07	4.25	3.01	.04	.00	.00	.30	.30	43.94	—	—	—	—	—	—	—	—	—	—	—	
WILLITS NW PAC RR	.00	.40	.00	.80	11.63	5.65	13.33	5.97	3.65	2.77	.00	.30	.20	.20	.20	44.52	—	—	—	—	—	—	—	—	—	—	—	
ZENTIA 1SE	.00	1.06	.00	.88	14.57	7.98	19.88	6.03	7.86	2.57	.20	.17	.00	.57	1.21	61.92	—	—	—	—	—	—	—	—	—	—	—	
MATTOLE RIVER																												
CAPE RANCH	—	.00	.60	.00	—	6.80	10.42	5.14	5.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
FERNDALE 8SW	16.03	.47	.19	.48	1.12	25.56	15.60	13.15	16.53	2.90	2.04	.26	.80	.30	1.36	47.34	—	—	—	—	—	—	—	—	—	—	—	
HONEYDEW 2NSW	166.92	.00	.35	.00	1.13	27.21	15.28	13.09	16.25	2.05	1.71	.62	.10	.11	.32	1.19	108.08	—	—	—	—	—	—	—	—	—	—	—
HONEYDEW HUNTER	197.78	.00	.45	.00	.72	13.78	9.02	16.39	6.50	10.07	1.94	.22	.27	.00	.28	1.14	109.03	—	—	—	—	—	—	—	—	—	—	—
PETROLIA	59.30	.21	.18	.00	—	—	—	—	—	—	—	—	—	—	—	—	60.33	—	—	—	—	—	—	—	—	—	—	—
PETROLIA 1NW	68.00	.00	.45	.00	.90	14.15	10.10	15.95	8.70	14.65	2.80	.35	.75	.00	.23	1.32	69.90	—	—	—	—	—	—	—	—	—	—	—
SHEIDER COVE	—	.54	—	.90	—	19.52	11.98	23.40	10.33	—	—	.39	.20	.11	.11	.27	81.27	—	—	—	—	—	—	—	—	—	—	—
UPPER MATTOLE	80.08	.00	.36	.00	1.47	16.10	9.87	27.22	8.95	10.64	3.56	.14	.11	.00	.34	.97	79.37	—	—	—	—	—	—	—	—	—	—	—
WHITEHORN	78.56	.00	.50	.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

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TABLE A-3
STORAGE GAGE PRECIPITATION DATA
NORTH COASTAL AREA

Station	Agency	1965-66 Season			
		Measurement Period	Precipitation in inches		
NORTH COASTAL AREA					
<u>SMITH RIVER</u>					
Camp Six Lookout	DWR	6-29-65	6-28-66	95.10	
<u>LOST RIVER-BUTTE VALLEY</u>					
Bray 10 WSW	DWR	6-30-65	6-27-66	15.95	
Crowder Flat	DWR	6-30-65	6-29-66	12.85	
Long Bell Station	DWR	7- 1-65	6-30-66	20.59	
Medicine Lake	DWR	6-30-65	6-27-66	39.20	
<u>SHASTA-SCOTT VALLEYS</u>					
Gazelle Lookout	DWR	6-29-65	6-28-66	19.25	
<u>KLAMATH RIVER</u>					
Beswick 7S	DWR	6-30-65	6-28-66	36.05	
Blue Creek Mountain	USWB	8-18-65	9- 6-66	98.88	
<u>TRINITY RIVER</u>					
Board Camp Mountain	DWR	6-28-65	6-27-66	87.76	
Mumbo Basin	DWR	7- 1-65	6-29-66	57.09	
<u>EEL RIVER</u>					
Plaskett	DWR	7- 2-65	6-30-66	46.45	

DWR - Department of Water Resources, Northern District
 USWB - United States Weather Bureau

TABLE A-4 TEMPERATURE DATA

The definition of terms and the abbreviations used in Table A-4 are as follows:

Maximum - The highest temperature of record for the month.

Minimum - The lowest temperature of record for the month.

Avg Max - The arithmetic average of daily maximum temperatures for the month.

Avg Min - The arithmetic average of daily minimum temperatures for the month.

Average - The arithmetic average of the daily maximum and minimum temperatures for the month.

TABLE A - 4
TEMPERATURE DATA
NORTH COASTAL AREA

Station Name	1965												1966												
	July	Aug	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	July	Aug	Sept.	July	Aug	Sept.				
NORTH COASTAL AREA																									
LOST RIVER-BUTTE VALLEY																									
DORRUS INSPECT STA	Maximum	88	84	82	78	74	68	55	48	42	37	32	26	20	18	85	88	93	93	88	84	75.0	75.0	40.8	
	Minimum	34	30	29	27	24	22	19	12	7	4	1	0	0	0	28	28	28	28	28	28	24	24	24	
	Avg Max	82.3	78.2	70.0	67.4	60.1	50.1	42.4	37.9	30.1	23.8	20.7	19.2	16.6	12.6	72.1	79.6	82.4	82.4	82.4	82.4	75.0	75.0	45.5	
	Avg Min	44.4	44.1	34.4	31.5	30.3	29.8	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6	41.6	41.6	41.6	41.6	41.6	41.6	45.5	45.5	64.0	
	Average	63.4	61.2	52.2	49.5	39.8	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	53.9	53.9	53.9	53.9	53.9	53.9	57.9	57.9	64.0	
GRASS LAKE HWS	Maximum	88	84	77	71	63	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Minimum	24	34	22	13	12	12	12	12	12	12	12	12	12	12	—	—	—	—	—	—	—	—	—	—
	Avg Max	82.0	77.8	71.7	66.8	52.4	28.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Avg Min	36.4	38.7	32.4	29.7	26.1	13.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Average	59.2	58.2	52.0	46.2	39.2	21.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TUFILELAKE INSPECT STA	Maximum	90	87	86	71	58	49	50	75	75	75	75	75	75	75	87	97	97	97	97	97	96	96	93	
	Minimum	36	34	19	18	6	1	1	1	1	1	1	1	1	1	16	24	24	24	24	24	28	28	31	
	Avg Max	83.3	79.1	72.7	72.3	47.5	40.4	37.8	32.8	29.9	22.5	17.6	15.9	14.6	14.6	63.5	74.1	82.0	82.0	82.0	82.0	86.8	86.8	77.7	
	Avg Min	44.2	43.7	34.0	31.5	31.5	27.8	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6	34.6	41.3	46.1	46.1	46.1	46.1	40.6	40.6	40.6	
	Average	63.8	61.4	53.4	51.9	38.7	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	45.8	54.4	56.0	56.0	56.0	56.0	66.5	66.5	59.2	
SHASTA-SCOTT VALLEYS	Maximum	96	91	88	74	62	—	—	80	81	93	98	98	98	98	101	101	101	101	101	101	102	102	102	
	Minimum	38	36	27	23	15	0	2	10	11	20	32	32	32	32	31	31	31	31	31	31	36	36	34	
	Avg Max	91.5	85.7	80.3	74.5	53.8	41.2	41.2	62.6	70.1	79.0	87.6	87.6	87.6	87.6	41.5	44.9	44.9	44.9	44.9	44.9	51.1	51.1	81.8	
	Avg Min	46.8	48.3	37.0	30.7	30.0	17.4	22.1	20.6	20.6	25.9	41.5	41.5	41.5	41.5	60.2	61.8	61.8	61.8	61.8	61.8	48.1	48.1	40.6	
	Average	69.2	67.0	58.7	52.6	41.9	29.3	—	—	—	44.3	49.9	49.9	49.9	49.9	60.2	61.8	61.8	61.8	61.8	61.8	66.8	66.8	61.2	
KLAMATH RIVER	Maximum	104	99	89	74	62	52	52	57	57	57	57	57	57	57	87	95	95	101	101	101	105	105	101	
	Minimum	46	47	38	30	26	13	18	19	21	21	21	21	21	21	30	34	34	40	40	40	36	36	36	
	Avg Max	94.3	88.8	83.5	79.5	53.3	45.0	45.0	49.6	49.6	43.6	43.6	43.6	43.6	43.6	80.3	81.3	81.3	89.2	89.2	89.2	93.8	93.8	84.6	
	Avg Min	56.0	57.4	48.4	43.0	37.7	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	29.9	34.5	46.1	46.1	55.2	55.2	55.2	58.4	58.4	51.8	
	Average	75.6	73.1	66.0	61.3	45.5	35.0	35.0	35.8	35.8	35.8	35.8	35.8	35.8	35.8	39.4	53.2	53.2	65.5	65.5	65.5	72.2	72.2	68.2	
SELAD VALLEY R S	Maximum	103	100	99	76	55	52	60	81	86	97	103	103	103	103	105	105	105	106	106	106	103	103	103	
	Minimum	40	42	32	28	15	14	21	23	23	23	23	23	23	23	29	36	36	41	41	41	34	34	34	
	Avg Max	94.2	86.9	87.1	78.3	45.1	43.8	43.8	57.5	57.5	51.2	51.2	51.2	51.2	51.2	73.6	83.4	83.4	95.3	95.3	95.3	89.8	89.8	85.2	
	Avg Min	51.7	54.9	42.3	40.4	39.9	25.9	25.9	33.0	33.0	44.3	44.3	44.3	44.3	44.3	38.3	44.3	44.3	47.4	47.4	47.4	52.7	52.7	46.9	
	Average	73.0	70.9	64.7	59.4	48.3	36.0	36.0	40.1	40.1	45.3	45.3	45.3	45.3	45.3	56.0	63.9	63.9	64.4	64.4	64.4	69.7	69.7	66.1	

— No record or record incomplete

TABLE A-4 (Continued)
TEMPERATURE DATA
NORTH COASTAL AREA

Station Name	1965												1966																	
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
NORTH COASTAL AREA																														
TRINITY RIVER																														
BURNT RANCH RMS	101	97	96	—	—	—	62	58	63	80	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Maximum	50	54	40	—	—	—	20	21	24	27	36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Minimum	50	54	87.5	85.7	87.5	87.5	51.1	49.7	55.7	57.0	64.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Avg Max	90.2	90.2	87.5	85.7	87.5	87.5	33.8	33.6	33.1	33.1	43.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Avg Min	56.8	56.8	57.8	47.5	47.5	47.5	42.5	41.7	44.4	49.5	52.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Average	73.5	72.7	66.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
MAD RIVER																														
Maximum	79	77	83	84	72	66	76	65	70	88	84	77	80	84	80	77	77	80	84	80	84	86	84	84	84	84	84	84		
Minimum	47	50	70.8	68.1	68.7	63.3	56.2	57.8	58.3	59.2	59.2	59.6	64.2	70.5	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6		
Avg Max	69.2	69.2	87.5	85.7	87.5	87.5	48.1	47.9	47.9	47.9	47.9	47.9	41.4	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0		
Avg Min	56.0	56.0	55.5	48.8	48.8	48.8	58.4	55.6	55.6	55.6	55.6	55.6	48.4	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9		
Average	62.6	62.6	63.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
BLUE LAKE																														
Maximum	75	73	79	84	72	66	78	75	76	80	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76		
Minimum	46	48	33	34	34	30	30	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
Avg Max	66.5	69.8	66.9	66.9	66.9	67.0	59.0	54.4	54.4	54.4	54.4	54.4	43.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2		
Avg Min	49.1	53.5	45.0	45.0	45.0	44.0	43.5	43.5	43.5	43.5	43.5	43.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Average	57.3	61.7	56.0	56.0	56.0	55.6	55.6	55.6	55.6	55.6	55.6	55.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
FIELDBROOK 4D RANCH																														
Maximum	75	73	79	84	72	66	78	75	76	80	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76		
Minimum	46	48	33	34	34	30	30	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
Avg Max	66.5	69.8	66.9	66.9	66.9	67.0	54.3	49.1	49.1	49.1	49.1	49.1	40.0	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9	33.9		
Avg Min	49.1	53.5	45.0	45.0	45.0	44.0	40.0	37.0	37.0	37.0	37.0	37.0	—	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4	42.4		
Average	59.8	60.5	59.8	59.8	59.8	58.2	58.2	58.2	58.2	58.2	58.2	58.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
HONOR CAMP 4C																														
Maximum	84	83	91	92	86	76	66	67	67	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
Minimum	40	43	27	34	34	30	25	25	25	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24		
Avg Max	72.6	71.9	80.3	80.3	80.3	70.1	54.3	54.3	54.3	50.8	50.8	50.8	53.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7		
Avg Min	46.9	49.1	37.0	46.3	46.3	46.3	40.0	37.0	37.0	37.0	37.0	37.0	37.0	32.6	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4		
Average	59.8	60.5	58.7	58.7	58.7	58.2	58.2	58.2	58.2	58.2	58.2	58.2	—	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1		
KORBEL																														
Maximum	78	83	82	93	92	79	62	68	68	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72		
Minimum	40	45	38	42	42	32	23	25	25	28	28	28	28	32	34	34	34	34	34	34	34	34	34	34	34	34	34	34		
Avg Max	72.9	76.3	71.9	70.3	70.3	63.0	53.0	55.0	55.0	56.9	56.9	56.9	56.9	56.9	68.8	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
Avg Min	50.2	53.8	47.8	47.0	47.0	43.0	43.3	34.2	34.2	36.7	36.7	36.7	36.7	36.7	39.5	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7
Average	61.6	65.0	59.6	59.6	59.6	58.2	58.2	53.2	53.2	43.6	43.6	43.6	43.6	43.6	45.8	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1	46.1
EEL RIVER																														
Maximum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Minimum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Avg Max	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Avg Min	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Average	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
BULL GREEK																														
Maximum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Minimum	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Avg Max	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Avg Min	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Average	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

— No record or record incomplete

TABLE A-4 (Continued)
TEMPERATURE DATA

NORTH COASTAL AREA

TEMPERATURE IN DEGREES FAHRENHEIT

Station Name	1966											
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Moy	June
NORTH COASTAL AREA												
EEL RIVER												
BURLINGTON STATE PK	94	86	79	72	66	61	78	83	99	96	98	96
Maximum	94	88	77.4	71.7	60.0	52.4	74.8	78.1	82.0	84.7	85.5	80.9
Minimum	48	42	42	50.8	50.8	52.1	60.1	71.5	49.5	53.5	53.0	50.5
Avg Max	82.4	81.9	77.4	71.7	64.3	59.6	41.2	46.6	49.5	53.0	53.0	50.5
Avg Min	54.0	55.7	48.6	47.9	53.8	46.1	50.7	50.8	63.8	67.4	68.3	65.7
Average	68.6	68.3	63.0	59.8	53.8	43.8	—	—	—	—	—	—
GARBERVILLE RMS	92	86	76	64	60	72	62	76	96	108	108	108
Maximum	92	88	76	64	60	72	62	76	96	108	108	108
Minimum	48	42	32	49.5	49.8	57.8	55.7	29	33	40	46	37
Avg Max	76.7	78.0	71.7	49.5	31.4	35.5	33.8	74.0	82.0	84.7	98.3	91.2
Avg Min	49.5	42.7	—	39.2	40.6	46.6	44.6	41.7	44.3	49.4	—	49.8
Average	63.1	50.4	—	44.4	40.6	46.6	44.6	49.7	63.2	67.1	—	76.5
GRIZZLY CRK REDWOOD	84	89	90	69	64	64	64	79	88	86	84	86
Maximum	84	91	90	90	90	90	90	79	93	93	90	96
Minimum	41	32	35	29	21	25	25	26	36	44	41	40
Avg Max	74.5	75.7	72.6	59.4	50.6	52.9	54.2	58.3	67.8	72.7	74.1	78.2
Avg Min	48.6	52.5	45.2	44.4	43.1	32.1	36.0	34.4	43.6	47.3	50.3	48.5
Average	61.6	64.1	58.9	58.8	51.2	41.4	44.4	44.3	53.8	55.7	60.0	63.1
HOLMES	—	—	—	67	64	62	62	79	91	87	94	85
Maximum	—	—	—	67	64	62	62	79	91	87	94	96
Minimum	—	—	—	31	26	29	31	33	38	44	48	44
Avg Max	—	—	—	58.4	52.1	53.2	53.2	62.0	68.6	71.3	73.8	81.1
Avg Min	—	—	—	42.2	35.6	40.4	40.4	43.8	46.9	52.0	54.4	52.2
Average	—	—	—	50.3	43.8	46.1	46.1	52.9	57.8	62.9	65.0	65.7
OLD HARRIS	102	92	75	74	65	75	74	94	94	84	94	98
Maximum	102	92	75	74	65	75	74	94	94	84	94	112
Minimum	40	40	29	22	20	22	20	18	32	32	40	38
Avg Max	80.1	76.6	76.1	70.0	51.9	50.2	50.2	65.9	77.5	71.5	82.2	84.2
Avg Min	44.2	46.2	49.4	46.7	38.3	31.5	31.5	29.6	40.5	39.6	43.4	48.2
Average	65.4	61.4	62.8	58.4	46.4	41.7	40.6	43.3	53.1	59.2	65.6	66.0
STANDISH HICKORY PK	90	84	90	85	62	62	62	78	87	93	103	99
Maximum	90	84	90	85	62	62	62	78	87	93	103	99
Minimum	44	50	38	31	22	25	27	29	33	38	42	44
Avg Max	79.9	78.7	73.6	66.6	51.8	54.8	54.9	61.1	76.1	79.7	82.7	82.8
Avg Min	53.1	45.2	45.2	44.0	42.7	32.4	35.5	34.8	42.2	45.7	48.4	47.6
Average	66.0	65.9	59.4	55.3	51.5	42.1	45.2	44.8	50.2	58.5	64.1	64.9
SUNNY BRAE	—	—	—	—	—	—	—	60	63	—	—	—
Maximum	—	—	—	—	—	—	—	25	26	—	—	—
Minimum	—	—	—	—	—	—	—	34.8	32.8	—	—	—
Avg Max	—	—	—	—	—	—	—	43.3	33.4	—	—	—
Avg Min	—	—	—	—	—	—	—	45.7	45.7	—	—	—

— No record or record incomplete

TABLE A-5 EVAPORATION DATA

The definition of terms and the abbreviations used in Table A-5 are as follows:

- Evap - The total amount of water evaporated from the pan in inches for the month.
- Wind - The amount of movement of air over the pan in miles for the month.
- Avg Max - The arithmetic average of daily maximum water temperatures in degrees Fahrenheit for the month.
- Avg Min - The arithmetic average of daily minimum water temperatures in degrees Fahrenheit for the month.

TABLE A-5
EVAPORATION DATA

NORTH COASTAL AREA

Station Name	Total July 1 To June 30	Evaporation in Inches												Water Temperature in Degrees Fahrenheit					
		July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total Oct. 1 To Sept. 30		
NORTH COASTAL AREA																			
LOST RIVER-BUTTE VALLEY	—	8.81	7.33	6.76	4.21	—	—	—	—	—	—	8.40	7.64	9.38	8.76	6.43	—		
TULELAKE	Evap	Wind	Avg Max	Avg Min	—	—	—	—	—	—	—	—	—	—	—	—	—		
KLAMATH RIVER	—	8.66	6.45	5.28	—	—	—	—	—	—	—	6.67	7.19	8.42	8.51	4.71	—		
SEAD VALLEY R.	Evap	Wind	Avg Max	Avg Min	—	—	—	—	—	—	—	—	—	—	—	—	—		
TRINITY RIVER	—	10.63	7.67	6.26	3.02	7.74	872	897	—	—	—	5.81	8.19	8.41	10.41	10.66	—		
TRINITY DAM VISTA PT	1415	1276	1388	1043	—	—	—	—	—	—	—	1161	1364	1375	1240	1130	—		
EEL RIVER	Evap	Wind	Avg Max	Avg Min	—	—	—	—	—	—	—	—	—	—	—	—	—		
FERNDALE 2NW	32.25	3.95	4.23	3.20	1.03	1.18	1.02	.89	1.29	1.87	3.30	4.06	5.18	4.41	3.74	32.97	—		
WIND & MAX	890	777	81.3	69.2	84.1	1447	1651	1723	1469	1538	1046	1097	986	900	927	84.1	145.6	—	
Avg Min	63.1	77.4	52.9	52.9	74.2	60.8	52.3	54.0	57.6	61.8	72.1	74.7	81.4	79.5	78.0	78.7	68.3	—	
LAKE FILLEBURY NO. 1	58.22	10.14	8.39	6.80	3.65	.89	.75	.75	1.07	2.97	5.89	8.18	8.99	9.98	9.81	6.76	59.37	—	
Wind	1004	912	874	562	309	—	—	—	124	655	971	1154	1062	85.6	87.9	89.1	837	—	
Avg Max	92.4	89.4	81.5	73.0	56.4	48.5	45.3	48.9	55.4	78.0	85.6	90.4	93.3	90.4	93.3	90.4	—	—	
Avg Min	61.4	61.0	52.1	48.5	45.3	—	—	38.3	39.3	44.4	55.0	56.3	57.7	57.7	57.7	54.5	54.5	—	

APPENDIX B

SURFACE WATER MEASUREMENTS

INTRODUCTION

This appendix presents surface water data for the 1966 water year, the period from October 1, 1965, to September 30, 1966. The data consist of daily mean discharges, gaging station locations, summary tables of monthly and annual unimpaired runoff from major streams, and streamflow measurements at miscellaneous locations.

The station, Etna Creek near Etna (F25620), was dropped from the program on October 1, 1965.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits identify each station.

North Coastal Area

- F0 - Smith River
- F1 - Lost River-Butte Valley
- F2 - Shasta-Scott Valleys
- F3 - Klamath River
- F4 - Trinity River
- F5 - Mad River
- F6 - Eel River
- F7 - Mattole River

INDEX TO GAGING STATIONS

- F21300 Little Shasta River near Montague
- F21700 Shasta River at Edgewood
- F25420 Moffett Creek near Fort Jones
- F41510 Browns Creek near Douglas City
- F41540 Weaver Creek near Douglas City
- F42100 North Fork Trinity River at Helena
- F44500 Big Creek near Hayfork

INDEX TO SAMPLING STATIONS

- F01300.00 Smith River near Crescent City (3a)
- F21050.00 Shasta River near Yreka (1a)
- F25250.00 Scott River near Fort Jones (1b)
- F31100.00 Klamath River near Klamath (3)
- F31220.01 Klamath River at Orleans (2c)
- F31430.00 Klamath River near Seiad Valley (2b)
- F31470.00 Klamath River above Hamburg
Reservoir Site (1c)
- F31600.00 Klamath River below Iron Gate Dam (1f)
- F34100.00 Salmon River at Somesbar (2a)
- F41090.00 Trinity River near Hoopa (4)
- F41376.00 Trinity River near Burnt Ranch (4b)
- F41640.00 Trinity River at Lewiston (4a)
- F51100.00 Mad River near Arcata (6a)
- F55100.00 Redwood Creek at Orick (3b)
- F61100.00 Eel River at Scotia (6)
- F61154.50 Eel River at South Fork (5)
- F61329.50 Eel River near Dos Rios (5d)
- F61350.00 Outlet Creek near Longvale (5b)
- F63010.00 Eel River, Middle Fork at Dos Rios (5c)
- F63050.00 Mill Creek near Covelo (5e)
- F63105.00 Williams Creek near Covelo (5f)
- F63120.00 Eel River, Middle Fork at
Eel River Ranger Station (5g)
- F63200.00 Black Butte River near Covelo (5h)
- F64100.00 Eel River, South Fork near Miranda (7)
- F65300.00 Van Duzen River near Bridgeville (5a)
- F71100.00 Mattole River near Petrolia (7a)
- F75100.00 Bear River near Capetown (7b)

Figure 8-1

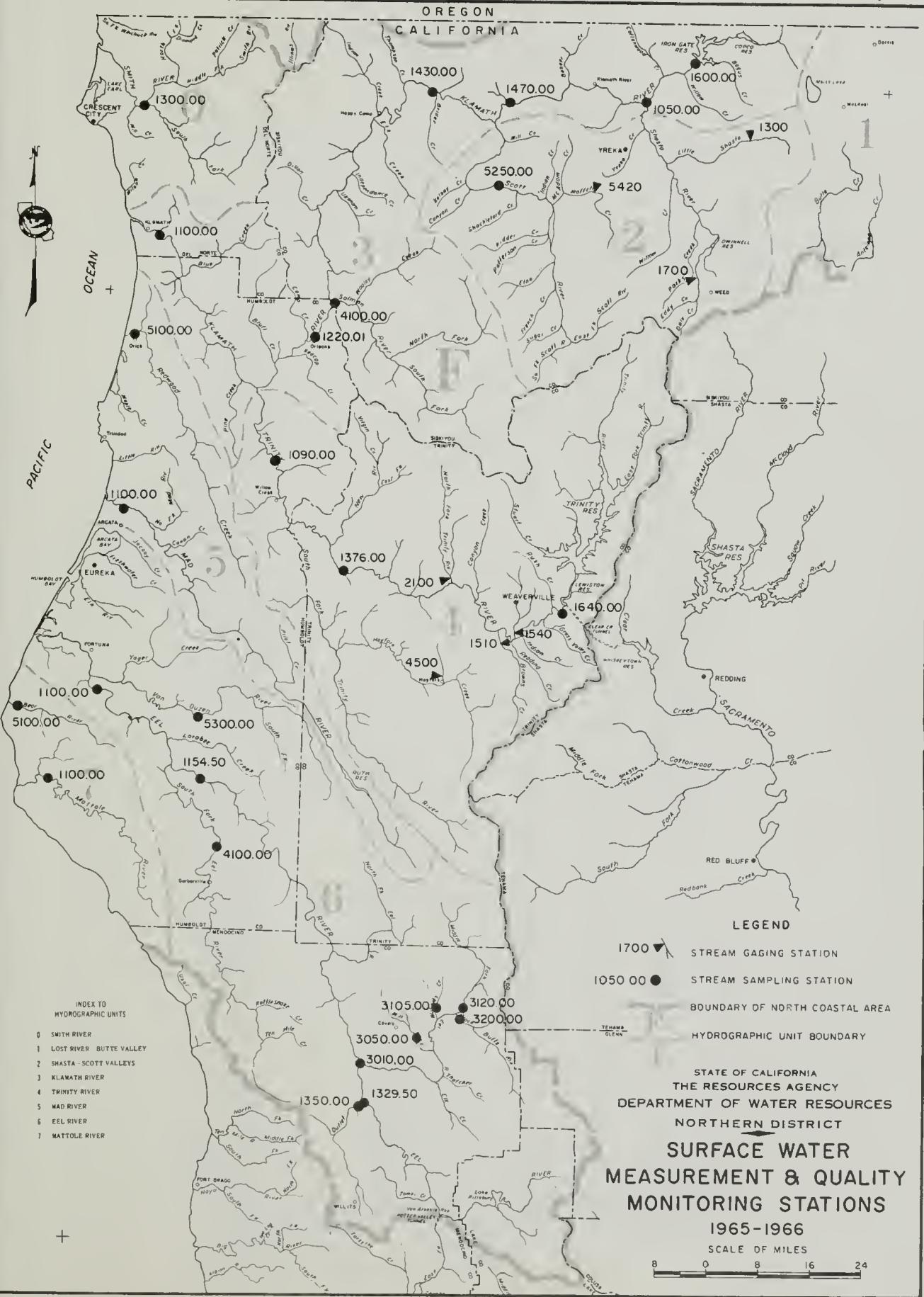


TABLE B-1 ANNUAL UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that would occur naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and (3) no change in ground water storage resulting from development.

TABLE B-1
ANNUAL UNIMPAIRED RUNOFF
In Percent of Average

Water Year	Klamath River, Copco To Somesbar	Trinity River At Lewiston	Eel River At Scotia
Average Annual Runoff*	4332	1167	5146
1915-16		129	
1916-17		56	84
1917-18		52	44
1918-19		99	103
1919-20		35	28
1920-21		154	152
1921-22		67	72
1922-23		59	54
1923-24		23	17
1924-25		128	139
1925-26		69	64
1926-27		156	153
1927-28	88	91	90
1928-29	58	45	37
1929-30		70	68
1930-31	41	34	31
1931-32	77	62	70
1932-33	83	69	71
1933-34	50	59	48
1934-35	83	83	99
1935-36	92	88	112
1936-37	75	86	69
1937-38	183	180	209
1938-39	59	49	52
1939-40	104	138	142
1940-41	103	218	160
1941-42	107	155	144
1942-43	137	95	111
1943-44	63	56	44
1944-45	84	90	93
1945-46	118	121	117
1946-47	60	63	51
1947-48	99	103	92
1948-49	74	94	81
1949-50	94	73	80
1950-51	116	138	139
1951-52	153	156	156
1952-53	149	138	139
1953-54	142	136	134
1954-55	61	63	62
1955-56	191	174	198
1956-57	100	93	84
1957-58	189	231	227
1958-59	79	89	80
1959-60	80	88	91
1960-61	104	104	104
1961-62	75	89	77
1962-63	136	137	138
1963-64	92	68	67
1964-65	165	147	183
1965-66**	109	115	100

*Average Unimpaired Runoff in Thousands of Acre-Feet
Computed From the 50-Year Period October 1915 Through
September 1965.

**Preliminary Data Subject to Revision.

TABLE B-2
MONTHLY UNIMPAIRED RUNOFF
In Percent of Average

Month		Klamath River, Copco To Somesbar	Trinity River At Lewiston	Eel River At Scotia
October 1965	Percent* Average**	90	62 21	56
November 1965	Percent* Average**	220	219 47	274
December 1965	Percent* Average**	485	62 91	874
January 1966	Percent* Average**	152 579	102 94	197 1042
February 1966	Percent* Average**	44 595	58 114	58 1180
March 1966	Percent* Average**	165 577	112 152	124 797
April 1966	Percent* Average**	197 630	157 214	71 571
May 1966	Percent* Average**	120 572	119 229	54 235
June 1966	Percent* Average**	54 334	75 118	47 79
July 1966	Percent* Average**	20 126	117 35	86 22
August 1966	Percent* Average**	0 67	169 13	78 9
September 1966	Percent* Average**	0 57	189 9	286 7
1965-66 Water Year	Percent* Average**	109 4332	115 1167	100 5116

*Preliminary Data Subject to Revision.

**Average Unimpaired Runoff in Thousands of Acre-Feet Computed From
the 50-Year Period October 1915 Through September 1965.

TABLE B-3 DAILY MEAN DISCHARGE

The streamflow table is arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (e.g., Weaver Creek near Douglas City).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - Cubic feet per second

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - Cubic feet per second

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

TABLE B-3

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

	WATER YEAR	STATION NO.	STATION NAME
	1966	F21300	LITTLE SHASTA RIVER NEAR MONTAGUE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.6	4.5	5.4	2.0	3.8	8.1	73 E	24	9.8	5.2	2.9	2.9	1
2	4.5	4.5	5.9	1.8	3.9	7.0	68 E	23	9.7	5.2	2.9	2.9	2
3	4.7	4.7	6.6	1.6	4.0	7.2	58	23	11	5.2	2.9	2.6	3
4	4.7	6.3	8.4	0.6	4.9	10	53	23	8.8	5.1	2.9	2.6	4
5	4.9 *	5.1	10	2.4	5.2	7.8	53	23 *	8.4	4.8	2.9	2.3	5
6	4.6	5.1	9.0	14	5.4	13	52 *	21	8.5	4.7	2.9	2.3	6
7	4.4	5.4	7.7	9.5	5.4	15	51	20	10	4.7	2.9	2.3	7
8	4.4	5.9	7.4 *	13	5.4	16	48	20	9.6	4.4 *	2.9	2.3	8
9	4.4	4.8	6.8	8.5	5.3	33 E	50	23	9.6	4.4	3.3	2.3 *	9
10	4.3	4.6	6.7	6.3	5.3	51	49	20	7.5 *	4.4	3.3	2.3	10
11	4.4	6.5	6.4	4.5	5.3	31	45	18	6.5	4.4	3.3	2.6	11
12	4.6	11	6.2	5.1	5.5	38	38	18	6.5	4.4	3.3	2.6	12
13	4.9	6.9	5.7	2.9 *	5.2	54 E	36 *	17	6.3	4.4	3.3	2.6 *	13
14	5.4	5.5	5.5	5.4	5.4	49	37	16	6.3	4.4	3.3	2.9	14
15	5.7	4.6	5.2	16	4.3	37	42	15	5.4	4.4	3.3	2.9	15
16	5.5	4.4	4.8	11	4.4	24	44	15	5.7	4.4	2.9	2.9	16
17	5.3	13	4.6	9.0	4.5	18	42	14	6.2	4.0	3.3	2.9	17
18	5.4	8.4	4.4	7.8	5.2	18	36	12	5.8	4.0	3.6	5.2	18
19	5.2	6.2	4.2	7.4	6.5	18	31	12	5.8	3.6	4.0	3.3	19
20	5.2	6.8	4.0	6.8	8.3	16	30	11	5.6	3.6	2.9	2.9	20
21	4.9	6.5	3.8	6.0	9.2	14	29	11	5.6	3.6	2.6	2.9	21
22	4.9	5.3	3.7	5.2	11	12	30	11	5.6	3.6	2.6	2.6	22
23	4.8	5.5	3.6	4.8	12	14 *	30	10	7.4	3.6	2.9	2.6	23
24	4.8	6.5	4.5	4.0	11	19	31	11	6.6	3.6	2.6	2.9	24
25	4.9	6.0	4.8	3.8	9.3	34	31	10	6.4	3.6	2.6	2.9	25
26	5.0	5.7	3.3	4.1	8.3	44	27	10	5.4	3.6	3.6	2.9	26
27	4.4	4.7	3.1	3.6	9.0	49 E	26	9.5	5.2	3.3	3.3	2.9	27
28	4.5	4.9	3.5	4.0	9.4	56 E	26	9.2	5.6	3.3	2.9	2.9	28
29	4.4	4.5	2.8	4.0		63 E	25	9.4	5.6	3.3	2.9	2.9	29
30	4.5	4.5	2.3	3.8		64 E	24	11	5.5	3.3	2.9	2.9	30
31	4.5	2.1	4.0			68 E		12		3.3	3.3	3.3	31
MEAN	4.8	5.9	5.2	5.9	6.5	29.3	40.5	15.6	7.1	4.1	3.1	2.8	MEAN
MAX.	5.7	13	10	16	12	68 E	73 E	24	11	5.2	4.0	5.2	MAX.
MIN.	4.3	4.4	2.1	0.6	3.8	7.0	24	9.2	5.2	3.3	2.6	2.3	MIN.
AC. FT.	295	354	320	363	360	1801	2410	956	420	253	180	167	AC. FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	MD.	DAY	TIME	MINIMUM DISCHARGE	GAGE HT.	MD.	DAY	TIME	TOTAL ACRE FEET
10.9	97	2.73	4	1	1900	0.6	1.21	1	4	0000	7890

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO OH GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 45 11	122 17 44	NW15 45N 4W	5910 E	10.66	12/22/64	28-NOV 51 8 APR 52-APR 55 SEP 56-DATE	28-NOV 51 8 APR 52-APR 55 SEP 56-DATE	1956 1965	1964	0.00	LOCAL

Station located S of Ball Mountain Road, 12 mi. NE of Montague, 16 mi. SW of Macdoel. Stage-discharge relationship affected by ice at times. Drainage area is 48.2 sq. mi.

b - Irrigation season only.

Station relocated upstream 1/4 mi. 5/27/65.

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.	STATION NAME
1966	F21700	SHASTA RIVER AT EDGEWOOD	

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	8.1	41	62	61	80	68	326	101 E	33 E	14	4.9 E	7.1	1
2	7.6	40	61	55	70	63	312 E	106 E	31 E	17	4.9 E	6.6	2
3	7.6	40	65	63	91	61	206 E	106 E	33 E	17	4.9 E	7.6	3
4	8.1	41	63	312	237	57	154 E	109 E	31 E	16	4.9	8.1	4
5	12 *	41	68	678	151	63	112 E	112 #	31 E	13	4.9	7.1	5
6	14	47	67	831	117	81	89 #	101 E	31 E	10	4.9	6.1	6
7	14	67	66	400	94	87	104 E	94 E	33 E	8.6	4.9	6.1	7
8	19	63	64	424	82	156	120 E	85 E	31 E	9.3 *	4.9	6.1	8
9	16	21	58	194	77	245	112 E	81 E	33 E	8.7	4.9	6.1	9
10	18	17	55	140	74	286	101 E	74 E	31 *	7.6	4.9	6.6	10
11	18	13	55	111	67	172	92 E	69 E	22	6.1	4.2	5.7	11
12	19	19	53	90 *	66	176	85 E	61 E	23	5.3	4.2	6.6	12
13	20	129	51	81	60	264	81 E	58 E	19	4.9	4.2	8.1 *	13
14	27	221	47	73	60	210	70 E	51 E	15	4.9	4.5	8.7	14
15	36	311	41	83	59	174	65 E	47 E	35	4.2	4.9	8.1	15
16	36	76	41	72	55	136	65 E	43 E	33	3.9	4.2	7.6	16
17	31	315	40	62	55	104	67 E	39 E	24	3.3	4.5	7.1	17
18	34	725	40	67	57	80	69 E	37 E	24	3.6	5.7	21	18
19	35	231	40	67	71	87	70 E	37 E	22	3.9	7.1	14	19
20	34	127	34 *	62	64	69	72 E	35 E	22	4.2	6.1	13	20
21	36	97	37	59	60	63	74 E	37 E	23	3.3	5.7	12	21
22	36	85	38	59	83	60	76 E	35 E	22 *	3.3	5.7	11	22
23	35	83 *	38	59	96	58 *	81 E	35 E	23	3.3	5.3	11	23
24	34	147	39	60	105	60	83 E	35 E	23	3.3	4.9	11	24
25	35	104	40	57	82	67	85 E	35 E	21	3.1	4.9	11	25
26	36	92	40	55	73	81	87 E	35 E	19	3.1	5.3 *	11	26
27	36	80	38	54	71	102	89 E	33 E	16	3.1	8.1	10	27
28	36	69	368	58	69	132	92 E	33 E	15	4.2	8.7	10	28
29	36	63	122	245	172	94 E	31 E	15	4.5 *	9.3	10	29	
30	36	66	80	142	213	99 E	33 E	14	4.5 E	9.3	7.6	30	
31	39	68	94		295		31 E	4.5 E		8.7		21	
MEAN	26.1	116	63.8	157	83.1	127	108	58.6	24.9	6.6	5.6	9.1	
MAX.	39	725	368	831	237	295	326	112 E	35	17	9.3	21	
MIN.	7.6	13	34	54	55	57	65 E	31 E	14	3.1	4.2	5.7	
AC. FT.	1605	6885	3925	9656	4614	7819	6411	3604	1484	408	346	540	

WATER YEAR SUMMARY

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF FLOW MADE THIS DAY.
 # — E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM			
47.9	DISCHARGE	GAGE HT.	MO. DAY	TIME	DISCHARGE	GAGE HT.	MO. DAY	TIME
	1500	4.58	11 18	0410	3.1	2.34	7 25	0000

TOTAL ACRE FEET
47300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 28 20	122 26 18	SE20 42N 5W	9600 E	8.86	12/22/64	MAR 61-DATE	MAR 61-DATE	1961		0.00	LOCAL

Station located on downstream side of Edgewood Road bridge, 1.2 mi. N of Edgewood. Tributary to Dwinell Reservoir. Stage-discharge relationship affected by ice at times. Several diversions for irrigation above station including one large diversion.

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.	STATION NAME
	1966	F25420	MOFFETT CREEK NEAR FORT JONES

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.2	1.3	1.6	3.4	13	14	52	8.5	4.2	0.7	0.3	0.2	1
2	1.3	1.3	1.6	3.4	13	14	52	8.2	4.6	0.6	0.5	0.1	2
3	1.3	1.3	1.8	6.8	13	14	47	8.5	4.6	0.7	0.5	0.1	3
4	1.2	1.4	1.8	22	14	13	43	8.4	3.8	0.5	0.5	0.1	4
5	1.3 *	1.3	1.7	38	16	13	39	8.6	3.8	0.5	0.5	0.1	5
6	1.7	1.5	1.9	126	16	14	37	8.4 *	3.9	0.5	0.3	0.1	6
7	1.5	1.4	2.0	75	16	15	36	8.1	3.7	0.5	0.3	0.1	7
8	1.6	1.5	2.0	87	14	17	36	7.9	4.2	0.4 *	0.3	0.3 *	8
9	1.6	1.8	2.0 *	59	14	23	36	7.7	3.9 *	0.5	0.3	0.4	9
10	1.7	1.3	2.0	41	14	43	37	7.0	4.0	0.5	0.3	0.6	10
11	1.5	1.4	2.0	32	13	41	35	5.9	3.7	0.4	0.3	0.5	11
12	1.5	1.5	2.0	26 *	13	39	33	5.5	3.7	0.4	0.4	0.4	12
13	1.6	1.8	2.1	22	13	45	30	5.3	3.2	0.4	0.5	0.2 *	13
14	1.6	2.6	1.8	20	13	45	26 *	5.4	2.9	0.5	0.5	0.2	14
15	1.4	2.4	1.6	20	12	44	24	5.3	2.6	0.4	0.3	0.2	15
16	1.3	2.3	1.4	22	12	39	22	4.9	2.5	0.5	0.2	0.2	16
17	1.2	2.7	1.3	20	12	34	22	4.7	2.3	0.5	0.2	0.2	17
18	1.5	2.7	1.2	20	11	30	22	5.0	2.3	0.6	0.4	0.4	18
19	1.1	2.9	1.1	18	11	29	20	5.2	2.2	0.5	0.3	0.2	19
20	1.1	2.3	1.1	17	12	27	20	4.6	2.4	0.4	0.2	0.2	20
21	1.2	2.0	1.0	16	12	25	17	4.1	2.4	0.3	0.2	0.2	21
22	1.2	2.0	1.0	16	13	24	15	4.1	2.2	0.3	0.2	0.4	22
23	1.1	1.9	1.0	15	13	23 *	14	3.8	2.0	0.3	0.2	0.7	23
24	1.2	2.1	1.0	14	13	23	13	3.7	1.4	0.3	0.2	0.7	24
25	1.2	2.1	1.0	14	14	24	13	3.5	1.2	0.3	0.4	0.8	25
26	1.3	1.9	1.1	14 *	14	25	12	3.4	1.2	0.2	0.5 *	0.5	26
27	1.4	1.8	1.4	13	13	29	12	3.3	0.9	0.2	0.4	0.4	27
28	1.5	1.9	5.5	13	14	35	11	3.4	0.9	0.2	0.3	0.6	28
29	1.4	1.8	4.8	14	14	41	11	3.6	1.3	0.2	0.2	0.4	29
30	1.4	1.6	4.1	15	15	47	9.8	4.1	0.9	0.2	0.2	0.3	30
31	1.4	3.7	13			49		4.7		0.2	0.2		31
MEAN	1.4	1.9	1.9	27.0	13.3	29.0	26.6	5.6	2.8	0.4	0.3	0.3	MEAN
MAX.	1.7	2.9	5.5	126	16	49	52	8.6	4.6	0.7	0.5	0.8	MAX.
MIN.	1.1	1.3	1.0	3.4	11	13	9.8	3.3	0.9	0.2	0.2	0.1	MIN.
AC. FT.	84	111	118	1660	736	1781	1580	347	164	25	20	19	AC. FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET		
9.18	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	6640

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.O.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
41 38 02	122 44 50	NE27 4N 8W	680	5.59	12/23/64	OCT 52-OCT 54 JUN 57-JULY 57	5.6	OCT 52-OCT 54 JUN 57-JULY 57	1957	0.00	LOCAL

Station located 180 ft. above Old Fort Jones-Yreka Highway bridge, 5.1 mi. NE of Fort Jones. Tributary to Scott River. Stage-discharge relationship affected by ice at times. Upstream diversion with approximate flow of one cfs May through October. Drainage area is 69.8 sq. mi.

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

	WATER YEAR	STATION NO.	STATION NAME
	1966	F41510	BROWNS CREEK NEAR DOUGLAS CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	7.4	8.9	57	58	127 *	134	316	66	27	15	7.6	7.3	1
2	7.1	9.1	55	55	114	130	276	63	28	15	7.1	6.5	2
3	7.3	9.1	55	67	123	122	231	62	28	14	6.6	6.3	3
4	7.5	11	57	161	332	120	197	62	26	14	6.5	6.0	4
5	7.5	10 *	59	219	397	119	178	59	25	13	6.0	5.5	5
6	7.9	10	59	293 *	333	125	170	56	29	12 *	5.6	5.3	6
7	8.2	16	56	321	261	137	163	55	31	12	5.4	5.3	7
8	8.1	26	52	317	200	171	153	54	28 *	13	4.9	5.0	8
9	7.7	14	50	276	167	292	144	53	26	13	5.2	5.7	9
10	8.0	12	46	201	149	430	138	50	23	12	5.2	6.8	10
11	8.4	13	43	160	137	384	130	49	24	11	4.9	5.7	11
12	8.0	30	40	137	128	337	127 *	45 *	22	11	4.5	6.3	12
13	8.0	79	37	124	118	373	120	42	21	22	3.9	7.3	13
14	8.2	169	35	120	117	394	115	40	20	18	2.8	8.1	14
15	8.8	112	33	130	112	387	111	39	19	13	3.1 *	7.3	15
16	9.0	78	31	140	108	334	111	39	19	12	3.6	7.3 *	16
17	9.1	77	27	136	107	264	110	36	18	12	5.0	7.0	17
18	10	172	27	128	109	225	103	35	17	12	5.7	7.8	18
19	11	186	26	118	123	203	96	35	17	11	5.3	8.1	19
20	10	113	27	108	125	183	91	34	17	10	4.8	7.8	20
21	8.6	85	29	101	126	171	88	33	17	10	4.8	7.0	21
22	8.3	66	25	98	133	163 *	85	31	17	9.5	5.0	7.0	22
23	7.8	66	24	92	148	160	82	29	17	8.7	4.8	7.0	23
24	8.1	108	27	89	164	162	80	29	17	8.5	5.5	6.8	24
25	8.5	107	30	87	164	182	77	28	17	8.3	5.7	6.8	25
26	8.8	94	25	83	153	215	76	28	16	8.4	5.5	6.3	26
27	8.9	81	27	81	142	268	75	29	15	8.4	5.0	7.0	27
28	9.4	71	107	76	136	306	73	30	16	7.7	5.0	6.8	28
29	9.2	67	98	115		327	70	29	15	8.0	5.3	6.3	29
30	9.4	62	78	147		337	67	30	15	8.3	6.0	6.0	30
31	9.3	70	132		323			30	15	7.5	7.3		31
MEAN	8.5	65.4	45.5	141	163	241	128	41.9	20.9	11.6	5.3	6.6	
MAX.	11	186	107	321	397	430	316	66	31	22	7.6	8.1	
MIN.	7.1	8.9	24	55	207	119	67	28	15	7.5	2.8	5.0	
AC. FT.	523	3892	2801	8668	9031	14830	7642	2579	1244	711	324	396	

WATER YEAR SUMMARY

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF FLOW MADE THIS DAY.
 # — E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM					
73.2	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME
	443	10.81	3	10	0620	2.2	7.77	8	14	0210

TOTAL ACRE FEET
52640

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 38 35	122 58 46	SE10 32N 10W	3950	E	16.60	2/18/58	JAN 57-DATE	JAN 57-DATE	1957	0.00	LOCAL

Station located at private bridge, 2.1 mi. W of Douglas City. Tributary to Trinity River. Stage-discharge relationship affected by ice at times. Drainage area is 71.4 sq. mi.

TABLE B - 3 (Continued)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.	STATION NAME
	1966	F41540	WEAVER CREEK NEAR DOUGLAS CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.6	4.9	19	27	120*	81	156	71	27	8.0	2.6	1.9	1
2	1.6	5.1	18	27	105	74	152	74	27	8.1	2.2	1.2	2
3	1.6	5.4	18	80	143	65	140	77	25	8.0	1.9	0.9	3
4	1.7	6.5	19	315	356	60	135	91	23	7.2	1.6	0.7	4
5	2.0	5.9	22	398 E	284	62	133	90	22	5.7	1.9	0.6	5
6	2.5	6.0	19*	297 *	228	68	137	80	24	5.5 *	1.9	0.4	6
7	2.5 *	12	21	204	166	84	136	74	25	5.6	1.3	0.3	7
8	2.3	14	19	187	127	215 *	131	72	22 *	6.3	1.2	0.4	8
9	2.3	8.1	17	136	105	316	133	73	20	6.4	1.3	0.4	9
10	2.4	7.0	15	94	91	342	134	71	19	6.4	1.3	0.8	10
11	2.4	7.7	14	72	80	224	134	68	17	6.1	1.5	0.9	11
12	2.6	34	14	59	71	181	124	66 *	17	5.3	1.5	1.1	12
13	2.8	36	13	54	63	204	104 *	64	16	6.3	1.3	1.3	13
14	3.0	43	11	54	59	183	97	60	16	6.0	1.0	1.5	14
15	3.6	22	10	61	56	168	100	56	16	5.3	0.9 *	1.3	15
16	3.7	16	9.3	69	53	143	111	54	15	5.0	0.9	1.1 *	16
17	4.0	18	8.7	68	52	117	114	53	14	5.5	1.0	0.9	17
18	4.1	31	8.3	63	54	102	107	51	12	4.7	1.1	1.3	18
19	4.0	33 *	8.1	59	98	95	51	51	12	4.5	0.6	1.5	19
20	4.1	21	9.1	52	105	86	88	54	12	4.9	0.6	1.3	20
21	4.1	17	8.7	49	98	80	83	50	12	4.1	0.6	1.3	21
22	4.0	15	9.3	49	105	74 *	81	47	12	3.6	0.7	1.1	22
23	3.8	19	9.6	47	128	72	83	42	12	2.8	0.7	1.0	23
24	4.0	40	8.7	43	132	75	83	40	11	2.5	0.6	0.9	24
25	3.9	44	8.7	43	126	83	89	37	9.5	2.6	0.4	0.8	25
26	4.0	39	10	43	113	96	85	35	8.5	2.5	0.6	0.9	26
27	4.3	31	9.8	42	99	107	78	36	8.9	2.3	1.1	0.9	27
28	4.7	26	125	41	88	118	74	36	8.3	1.8	1.0	0.8	28
29	4.9	22	80	180	128	73	33	7.9	2.1	1.1	0.7	29	
30	4.9	20	47	201	139	72	32	8.3	2.2	1.7	0.5	0.5	30
31	4.7	38	141	147				30		3.1	2.2		31
MEAN	3.3	20.3	20.9	105	129	109	57.0	16.0	4.8	1.2	1.0	MEAN	
MAX.	4.9	44	125	398	356	156	91	27	8.1	2.6	1.9	MAX.	
MIN.	1.6	4.9	1.8	27	52	60	72	30	7.9	1.8	0.4	MIN.	
AC. FT.	203	1210	1280	6460	6560	7920	6470	3510	951	298	76	57	AC. FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	DISCHARGE	MAXIMUM DISCHARGE				DISCHARGE	MINIMUM DISCHARGE				TOTAL ACRE FEET
48.3	474	GAGE HT.	MO.	DAY	TIME	0.3	GAGE HT.	MO.	DAY	TIME	34990

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT.	DATE			FROM	TO		
40 40 13	122 56 33	SE36 33N 10W	3980 E	12.72	12/22/64	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL

Station located 2.0 mi. below State Highway 299 bridge, 1.2 mi. N of Douglas City, 4.2 mi. S of Weaverville. Tributary to Trinity River. Drainage area is 48.4 sq. mi.

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.	STATION NAME
	1966	F42100	NORTH FORK TRINITY RIVER AT HELENA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	24	23	160	227	431 *	392	1750 E	547	273	139	59	23	1
2	23	23	163	210	369	383	1720 E	607	239	130	56	21	2
3	23	24	180	277	342	344	1560 E	674	214	116	54	21	3
4	23	23	227	511	522	321	1540 E	845	200	111	54	21	4
5	25	49 *	506	687	728	306	1580 E	938	205	114	52	20	5
6	25	42	534 *	1540 *	706	318	1590 E	759	213	114 *	49	18 *	6
7	24	53	441	1300	586	392	1570 E	645	223	107	47	18	7
8	24	127	352	1080	482	753 *	1450 E	622	248 *	99	44	19	8
9	23	72	293	904	411	1450 E	1350	648	286	94	44	20	9
10	24	62	243	691	368	1800 E	1330	677	298	91	42	21	10
11	24	73	208	536	344	1370 E	1210	606	269	88	41	21	11
12	24	255	182	448	324	1090	1080	536 *	241	85	39	22	12
13	23	250	160	388	298	1440 E	946 *	527	270	84	38	22	13
14	26	390	147	366	289	1510 E	855	476	320	84	37	25	14
15	33	309	135	444	282	1350	945	419	328	83	35	25	15
16	29	176	123	540	278	1130	1200	402	296	82	33	25	16
17	29	180	116	530	284	925	1200	403	269	82	32	25	17
18	28	390	111	482	299	811	1020	433	248	78	32	31	18
19	28	446 *	105	443	348	746	833	498	243	78	31	33	19
20	28	285	103	394	369	677	724	561	209	75	30	28	20
21	27	219	101	349	368	628	650	550	177	71	30	29	21
22	25	181	98	329	387	574	641	475	161	71	29	29	22
23	24	172	94	298	482	568	669	390	155 *	71	28	28	23
24	24	252	100	286	510	610	725	423	153	69	28	27	24
25	24	264	100	268	484	754	787	472	144	65	27	26	25
26	24	248	95	259	431	924	772	487	148	62	26	26	26
27	24	213	102	251	405	1140	635	452	156	60 *	26	26	27
28	24	186	570	244	395	1290	581	453	165	63	26	26	28
29	24	177	450	396		1420 E	545	405	167	59	25	25	29
30	23	167	312	609		1570 E	531	397	147	58	26	24	30
31	23	271	509			1620 E	343		60	27			21
MEAN	25.0	179	219	510	412	923	1066 E	538	222	85.3	37.0	24.2	MEAN
MAX.	33	390	570	1540	728	1800 E	1750 E	938	328	139	59	33	MAX
MIN.	23	23	94	210	278	308	531	343	144	58	25	18	MIN
AC. FT.	1539	10680	13450	31330	22850	56740	63450	33060	13220	5242	2275	1438	AC. FT.

WATER YEAR SUMMARY

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF FLOW MADE THIS DAY.
 # — E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE
MEAN GAGE HT.	MAXIMUM GAGE HT.	MINIMUM GAGE HT.
MD. DAY	TIME	MO. DAY TIME
353	2040	11.90 3 10 0140
6.71	9	6 0000

TOTAL ACRE FEET
255300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 46 56	123 07 39	SW21 34N 11W	35800	27.93	12/22/64	JAN 57-DATE	JAN 57-DATE	1957		0.00	LOCAL
Station located 1.0 mi. above mouth, 0.6 mi. N of Helena. Stage-discharge relationship affected by ice at times. Drainage area is 151 sq. mi.											

TABLE B-3 (Continued)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR		STATION NO.	STATION NAME
	1966	F44500	BIG CREEK NEAR HAYFORK

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.4	0.4	19	31	48 *	53	190	26	9.7	6.1	0.3	1.1	1
2	0.4	0.2	20	31	42	51	185	22	9.7	5.6	0.4	0.3	2
3	0.2	1.4	22	64	44	47	176	23	9.2	3.8	0.3	0.8	3
4	0.2	3.2	25	183	68	44	168	23	9.2	5.3	0.3	0.8	4
5	0.2	2.9 *	32	159	81	43	162	23	8.8	6.0	0.3	0.4	5
6	0.9	2.6	42	161 *	82	45	157	30	8.8	5.8 *	0.9	0.5	6
7	0.9 *	4.9	36	138	69	50	150	33	8.3	5.8	1.1	0.6	7
8	0.6	6.0	33	129	61	69 *	138	32	9.7	6.1	0.9	0.5	8
9	0.4	4.2	28	107	54	102	136	23	6.3	5.8	0.4	0.5	9
10	0.2	4.4	25	84	51	150	136	21	6.0	5.8	0.3	0.8	10
11	0.1	5.1	25	68	44	136	136	19	6.0	6.0	0.4	0.8	11
12	0.1	13	22	58	42	132	131 *	18 *	4.9	5.0	0.5	0.8	12
13	0.1	19	21	51	39	160	120	16	4.6	3.9	0.5	0.8	13
14	0.1	26	21	47	36	162	112	16	4.6	2.2	0.5	0.8	14
15	0.1	15	19	49	35	158	109	16	4.0	1.4	0.4 *	1.1	15
16	0.4	13	20	54	33	147	108	15	3.8	0.3	0.2	0.6	16
17	0.3	13	20	53	34	125	101	16	3.5	0.8	0.1	0.4	17
18	0.2	27	20	52	36	109	92	15	3.2	0.9	0.2	1.2	18
19	0.1	35 *	19	49	45	106	83	13	2.8	0.5	0.1	1.0	19
20	0.1	25	19	46	45	98	76	12	2.3	0.5	0.5	0.8	20
21	0.2	21	19	42	45	91	72	12	1.9	0.5	0.5	0.8	21
22	0.1	20	18	42	51	87	68	11	1.8	0.5	0.4	0.5	22
23	0.1	23	18	38	63	84	64	11	2.0 *	0.3	0.4	0.7	23
24	0.1	35	18	36	66	92	62	11	1.8	0.5	0.4	1.0	24
25	0.1	30	18	34	64	110	60	11	1.5	1.2	0.5	0.8	25
26	0.5	25	18	31	60	137	58	9.7	1.4	0.4	0.7	0.8	26
27	0.3	24	17	31	55	170	49	9.7	1.5	0.3	0.8	0.8	27
28	0.2	21	49	30	53	181	43	9.2	2.9	0.3	0.6	0.8	28
29	0.2	21	45	51	187	34	9.7	5.6	0.1	0.9	0.6	29	
30	0.2	21	36	54	191	30	9.7	5.6	0.3	1.1	0.6	3D	
31	1.0		33	50		191		10		0.3	1.3		31
MEAN	0.3	15.4	25.1	66.2	51.6	113	107	17.0	5.1	2.7	0.5	0.7	MEAN
MAX.	1.0	35	49	183	82	191	190	33	9.7	6.1	1.3	1.2	MAX.
MIN.	0.1	0.2	17	30	33	43	30	9.2	1.4	0.1	0.1	0.3	MIN.
AC. FT.	18	917	1540	4070	2870	6960	6360	1040	300	163	32	44	AC. FT.

WATER YEAR SUMMARY

MEAN DISCHARGE	MAXIMUM					MINIMUM	TOTAL ACRE FEET				
33.6	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	24320

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
40 33 11	123 08 35	SE7 3LN 11W	1610 E	11.75	12/22/64	FEB 57-DATE	FEB 57-DATE	1957		0.00	LOCAL

Station located 30 ft. above Hayfork-Douglas City Highway bridge, 2 mi. E of Hayfork. Tributary to South Fork Trinity River via Hayfork Creek. About 5 cfs diverted above station. Drainage area is 27.1 sq. mi.

TABLE B-4 STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

This table shows the discharge rate of various streams at locations other than those where continuous recorders are maintained.

TABLE B-4
STREAMFLOW MEASUREMENTS AT MISCELLANEOUS SITES

Stream	Tributary	Location	Measurements	
			Date	Discharge (cfs)
Eel River, East Branch South Fork, Near Benbow Resort	South Fork Eel River	SW ₁ ¹ , NE ₄ ¹ , Sec. 32, T4S, R4E, HB&M	10-1-65 10-6-65 10-28-65	4.4 6.0 5.5
Hollow Tree Creek Near Leggett	South Fork Eel River	SW ₁ ¹ , NE ₄ ¹ , Sec. 15, T2 ₃ N, R17W, MDB&M	10-29-65	2.4
Indian Creek Near Moody	South Fork Eel River	NE ₁ ¹ , NW ₄ ¹ , Sec. 4, T2 ₁ N, R18W, MDB&M	10-15-65 10-26-65	2.3 1.7
Red Mountain Creek Near Piercy	South Fork Eel River	SE ₁ ¹ , NE ₄ ¹ , Sec. 17, T2 ₁ N, R17W, MDB&M	10-26-65	2.8
Redwood Creek Near Redway Drainage Area = 25.5 Sq. Mi.	South Fork Eel River	SW ₁ ¹ , SW ₄ ¹ , Sec. 10, T4S, R3E, HB&M	10-6-65 10-27-65	0.7 0.6
Salmon Creek Near Miranda	South Fork Eel River	SE ₁ ¹ , SE ₄ ¹ , Sec. 5, T3S, R3E, HB&M	10-28-65	0.6

APPENDIX C

GROUND WATER MEASUREMENTS

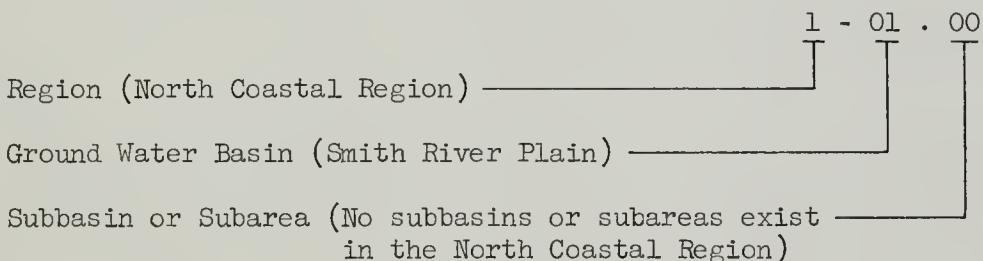
INTRODUCTION

This appendix contains ground water level measurements from 50 wells for the period July 1, 1965, through September 30, 1966. It also contains a table which summarizes the measurements. Wells in the network are continuously reviewed and, when conditions dictate, replacement wells are located and measured.

There are nine ground water basins in the North Coastal Region for which data are reported.

Two numbering systems are used by the Department to facilitate the processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of Northern California covered by this report comprises the North Coastal Region No. 1. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:



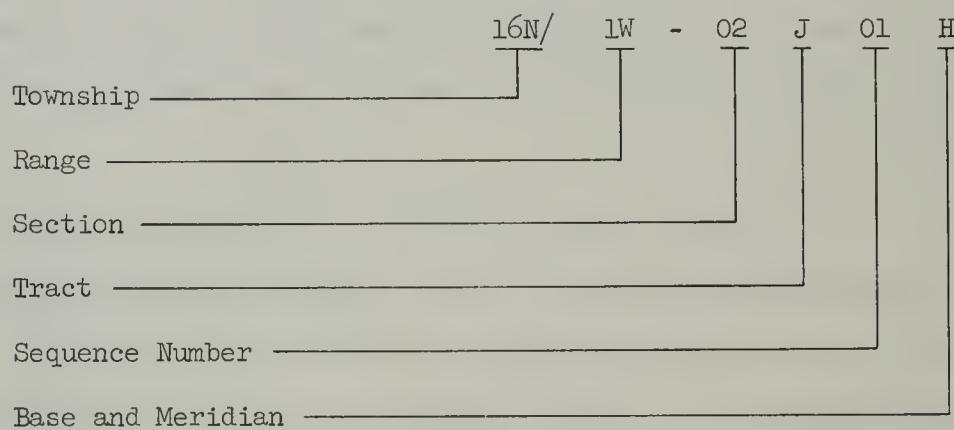
The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey.

A section is divided into 40-acre tracts as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order.

The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 16 North, Range 1 West, Tract J of Section 2, located in the Humboldt Base and Meridian.

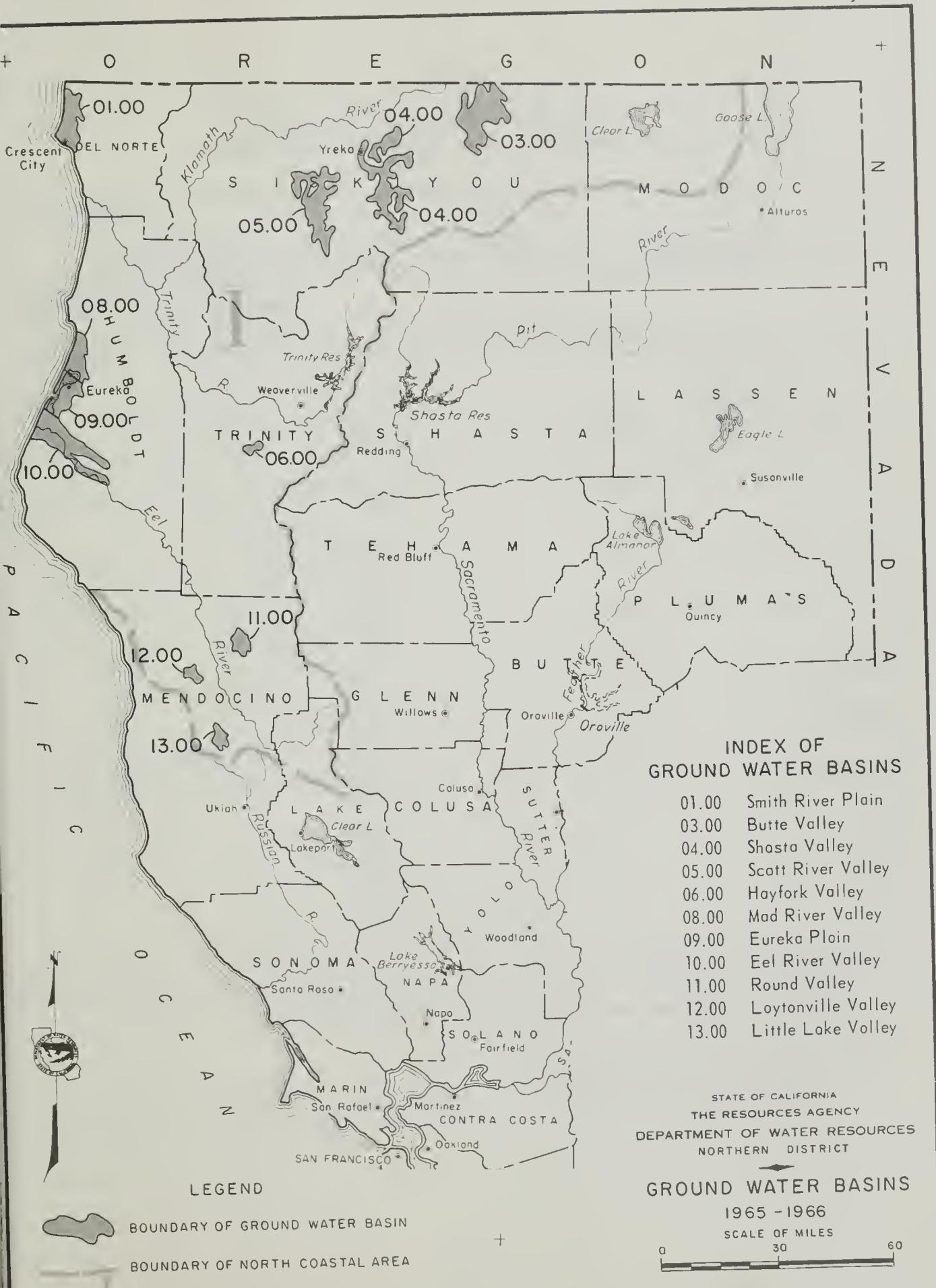


TABLE C-1

AVERAGE CHANGE OF GROUND WATER LEVELS
AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin	Name	Number	Average	Measuring Agency	Number of Wells Reported		
			Change Spring 1965 to Spring 1966 in feet		Monthly* 1965-66	Fall 1965	Spring 1966
NORTH COASTAL REGION							
Smith River Plain		1-01.00	+2	USGS DWR	4	2	2
Butte Valley		1-03.00	-3	USGS DWR	5	3	3
Shasta Valley		1-04.00	-1	USGS DWR	6	1	1
Scott River Valley		1-05.00	-6	USGS DWR	4	2	2
Mad River Valley		1-08.00	+1	USGS	2		
Eel River Valley		1-10.00	+1	USGS DWR	3	1	1
Round Valley		1-11.00	+2	USGS	6		
Laytonville Valley		1-12.00	+2	USGS DWR	3	1	1
Little Lake Valley		1-13.00	No Change	USGS DWR	3	4	4

* Monthly wells measured by the United States Geological Survey were discontinued in the Spring of 1966. These wells will be included in the Department of Water Resources semiannual measurement grid beginning in the Fall of 1966.

USGS - United States Geological Survey

DWR - Department of Water Resources

TABLE C-2 GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number - Refer to the explanation presented in the Introduction.

Ground Surface Elevation - The numbers in this column are the elevation in feet above mean sea level (USGS) of the ground surface at the well.

Date - The date shown in the column is the date when the depth measurement given in the next column was made.

Ground Surface to Water Surface - This is the measured depth in feet from the ground surface to the water surface in the well; some of the depth measurements in the column may be preceded by a number in parentheses to indicate a questionable measurement. The code applicable to these "questionable measurements" is as follows:

- (1) Pumping
- (2) Nearby pump operating
- (3) Casing leaking or wet
- (4) Pumped recently
- (5) Air or pressure gage measurement
- (6) Other
- (7) Recharge operation at or near well
- (8) Oil in casing
- (9) Caved or deepened

When a measurement was attempted, but could not be obtained, then only a number in parentheses is shown in the column. The code applicable to these "no measurements" is as follows:

- (1) Pumping
- (2) Pump house locked
- (3) Tape hung up
- (4) Cannot get tape in casing
- (5) Unable to locate well
- (6) Well has been destroyed
- (7) Special
- (8) Casing leaking or wet
- (9) Temporarily inaccessible
- (0) Measurements discontinued

The words FLOW and DRY are shown in this column to indicate a flowing or dry well, respectively. A minus preceding the number in this column indicates that the static water level in the well is this distance in feet above the ground surface.

TABLE C-2 GROUND WATER LEVELS AT WELLS (Cont.)

Water Surface Elevation - This is the elevation in feet above mean sea level (USGS Datum) of the water surface in the well. It was derived by subtraction of the depth measurement from the ground surface elevation.

Agency Supplying Data - Each of these numbers is the code number for the agency supplying data for that measurement. The agencies supplying data for this report and the code numbers assigned to them are as follows:

Agency Code	Agency
5000	U. S. Geological Survey
5050	Department of Water Resources

TABLE C-2

GROUND WATER LEVELS AT WELLS

TABLE C-2 (Continued)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	GROUND SURFACE TO WATER SURFACE IN FEET		DATE	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	
						STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET				
SHASTA VALLEY 1-03.00											
47N/01W-14B01 M	4233.7		7-15-65 8-17-65 9-25-65 10-28-65 11-03-65 12-03-65 1-11-66 2-04-66 3-03-66 4-04-66	11.1 10.6 10.7 10.8 10.9 10.9 10.3 10.7 10.3 10.6	4222.6 4223.1 4223.0 4222.9 4222.8 4222.8 4223.4 4223.0 4223.4 4223.1	5000 5000 5000 5000 5050 5000 5000 5000 5000 5000	2882.0	7-15-65 8-17-65 9-25-65 10-28-65 11-03-65 12-03-65 1-10-66 1-31-66 3-04-66 4-05-66	2877.5 2877.4 2878.4 2877.2 2876.4 2876.8 2877.8 2877.0 2876.1 2878.0	5000 5000 5000 5000 5000 5000 5000 5000 5000 5000	
47N/01W-17R01 M	4239.8		11-03-65 4-05-66	10.1 8.9	4229.7 4230.9	5050 5050	2835.0	7-15-65 8-17-65 9-25-65 10-28-65 11-03-65 12-03-65 1-10-66 1-31-66 3-04-66 4-05-66	2828.6 2827.8 2827.1 2824.7 10.4 2824.6 7.8 7.7 8.3 8.0	5000 5000 5000 5000 5000 5000 5000 5000 5000 5000	
47N/01W-19L01 M	4237.7		11-03-65 4-05-66	5.8 5.5	4231.9 4232.2	5050 5050					
47N/01W-27B01 M	4233.4		7-15-65 8-17-65 9-25-65 10-28-65 11-03-65 12-03-65 1-11-66 2-04-66 3-03-66 4-04-66	8.6 9.0 9.1 9.3 9.4 9.3 8.3 8.8 7.9 8.4	4224.8 4224.4 4224.3 4224.1 4224.0 4224.1 4225.1 4224.6 4225.5 4225.0	5000 5000 5000 5000 5050 5000 5000 5000 5000 5000	43N/06W-22A01 M	2665.0	7-15-65 8-17-65 9-25-65 11-03-65 11-05-65 12-03-65 1-10-66 1-20-66 (1) 22.3 (1) 10.3 (1)	2649.3 (1) 15.7 (1) 22.3 (1) 10.3 (1)	5000 5000 5000 5000 5000 5000 5000 5000 5000 5000
48N/01W-26N01 M	4244.2		7-15-65 8-17-65 9-25-65 10-28-65 11-03-65 12-03-65 1-11-66 2-04-66 3-03-66 4-04-66	(1) 18.0 17.7 18.2 18.6 18.6 17.5 17.7 18.9 (7)	4220.5 4226.2 4226.5 4226.0 4225.6 4225.6 4226.7 4226.5 4225.3 4225.0	5000 5000 5000 5000 5050 5000 5000 5000 5000 5000		7-15-65 8-17-65 9-25-65 10-28-65 11-03-65 12-03-65 1-10-66 2-04-66 3-04-66 4-05-66	24.8 23.5 25.2 25.2 2611.8 2611.5	5000 5000 5000 5000 5000 5000 5000 5000 5000 5000	

TABLE C-2 (Continued)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
44N/05W-34H01 M (Cont.)	2637.0	12-03-65 1-10-66 2-03-66 3-03-66 4-04-66	26.4 27.3 27.8 28.2 29.4	2610.6 2609.7 2609.2 2608.8 2607.6	5000 5000 5000 5000 5000	42N/09W-08C03 M	2836.0	7-15-65 8-17-65 9-22-65 11-02-65 11-03-65	35.5 42.0 48.2 53.2 57.9	2800.5 2794.0 2787.8 2782.8 2778.1
44N/06W-10F01 M	2537.0	11-03-65 4-05-66	19.4 16.9	2517.6 2520.1	5050 5050	42N/09W-27N01 M	2930.0	12-03-65 1-10-66 2-03-66 3-04-66	55.2 52.5 46.8 45.1	2788.8 2784.5 2789.2 2790.9
45N/05W-29B01 M	2635.0	7-15-65 8-17-65 9-25-65 10-28-65 11-02-65	17.4 (1) 18.6 18.2 18.5	2617.6 2617.6 2616.4 2616.8 2616.5	5000 5000 5000 5000 5050	42N/09W-27N01 M	2930.0	7-15-65 8-17-65 9-25-65 11-02-65 11-05-65	3.1 5.6 6.7 6.9 (7)	2926.9 2924.4 2923.3 2923.1 2927.2
45N/06W-19B01 M	2538.0	7-15-65 8-17-65 9-25-65 10-28-65 11-02-65	22.9 (1) 20.4 19.2 20.3	2515.1 2515.5 2517.6 2518.8 2517.7	5000 5000 5000 5000 5050	43N/09W-23F01 M	2728.0	11-02-65 4-04-66	2.9 2.7	2927.1 2927.3
SCOTT RIVER VALLEY	1-05.00					43N/09W-24F01 M	2735.0	7-15-65 8-17-65 9-22-65 11-02-65 11-03-65	(1) (1) (1) 7.4 7.3	5000 5000 5050 5000 5000
42N/09W-02A02 M	2746.0	11-02-65 4-04-66	10.5 9.5	2735.5 2736.5	5050 5050			12-03-65 1-10-66 2-03-66 3-04-66	2726.7 2728.1 2727.0 2725.7	5000 5000 5000 5000
								4-05-66	2725.4	

TABLE C-2 (Continued)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
44N/09M-28F01 M	2711.0	7-15-65	8.3	2702.7	5000	03N/01W-18D01 H *	15.0	7-14-65	2.2	12.8	5000
8-17-65	15.7	2695.3	5000	8-18-65	2.4	9-24-65	2.6	10-20-65	2.6	12.4	2000
9-25-65	14.5	2696.5	5000	9-24-65	2.6	10-20-65	2.5	11-09-65	3.0	12.5	2050
10-29-65	23.8	2687.2	5000	10-20-65	3.0	11-09-65	3.0	12.0	3.0	12.0	2000
11-02-65	(2)										
11-03-65	26.1	2684.9	5000	1-20-66	3.2	1-20-66	3.2	1-20-66	3.2	11.8	5000
12-03-65	20.0	2691.0	5000	2-16-66	2.6	2-16-66	2.6	2-16-66	2.6	12.4	5000
1-10-66	14.8	2696.2	5000	3-29-66	1.8	3-29-66	1.8	3-29-66	1.8	13.2	5000
2-03-66	9.3	2701.7	5000								
3-04-66	8.4	2702.6	5000	5-06-66	1.6	5-06-66	1.6	5-06-66	1.6	13.4	5000
MAD RIVER VALLEY	1-08.00					03N/01W-34J01 H	53.0	7-14-65	33.1	19.9	5000
06N/01E-06H01 H	151.0	7-14-65	10.4	140.6	5000	8-18-65	33.7	9-24-65	34.2	12.3	5000
8-18-65	(1)					9-24-65	34.2	10-20-65	34.5	18.8	5000
9-21-65	14.0	137.0	5000	10-20-65	34.5	11-09-65	34.5	11-09-65	34.5	18.5	5050
10-19-65	14.2	136.8	5050								
11-09-65	16.6	134.4	5000	1-20-66	31.3	2-16-66	31.2	2-16-66	31.2	21.7	5000
1-20-66	2.9	148.1	5000	3-29-66	30.9					21.8	5000
2-16-66	2.6	148.4	5000							22.1	5000
3-29-66	2.0	149.0	5000	5-06-66	31.7						
06N/01E-29F01 H	25.0	7-14-65	10.5	14.5	5000	03N/02W-26R01 H	12.0	7-14-65	8.0	4.0	5000
8-18-65	9.9	15.1	5000	8-18-65	9.2					2.8	5000
9-24-65	17.1	7.9	5000	9-24-65	9.4					2.6	5000
10-19-65	12.9	12.1	5050	10-20-65	10.5					1.5	5050
11-09-65	12.2	12.8	5000	11-09-65	9.4					2.6	5000
1-20-66	12.6	12.4	5000								
2-16-66	7.7	17.3	5000	1-20-66	3.3					8.7	5000
3-29-66	6.9	18.1	5000	2-16-66	3.6					8.4	5000
EEL RIVER VALLEY	1-10.00					3-29-66	3.7			8.3	
02N/01W-08S01 H	34.0	10-20-65	21.5	12.5	5050	5-06-66	5.7			6.3	5000
		4-06-66	13.9	20.1	5050						

* All previously published elevations are to be corrected by subtracting 9.0 feet.

TABLE C-2 (Continued)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	
ROUND VALLEY 1-11.00					ROUND VALLEY 1-11.00						
22N/12W-04B01 M	1351.0	7-13-65 8-18-65 9-23-65 10-06-65 11-10-65 12-09-65 1-19-66 2-23-66 4-06-66 4-20-66	8.9 11.8 13.6 13.2 15.3 7.2 5.7 5.7 6.2 6.3	1342.1 1339.2 1337.4 1337.8 1335.7 1335.8 1345.3 1345.3 1334.8 1334.7	5000 5000 5000 5000 5000 5000 5000 5000 5000 5000	23N/12W-31N01 M	1388.5	7-13-65 8-18-65 9-23-65 10-06-65 11-10-65 12-09-65 1-19-66 2-23-66 4-06-66 4-21-66	0.5 4.6 (1) 5.1 8.4 - 3.0 - 9.1 - 9.2 - 8.5	1388.0 1383.9 5000 5050 5000 5000 5000 5000 5000 5000	
22N/12W-06L03 M	1369.7	7-13-65 8-18-65 9-23-65 10-06-65 11-10-65 12-09-65 1-19-66 2-23-66 4-06-66 4-20-66	10.3 16.3 1.0 0.9 0.8 -10.9 -10.4 -7.8 -10.8	1359.4 1353.4 1368.7 1368.8 1368.9 1360.6 1380.1 1377.5 1380.5	5000 5000 5000 5000 5000 5000 5000 5000 5000 5000	23N/13W-36C03 M	1409.5	7-13-65 8-18-65 9-23-65 10-06-65 11-10-65 12-09-65 1-19-66 2-23-66 4-06-66 4-21-66	16.8 21.9 26.0 27.1 28.3 15.7 7.5 8.6 9.1 8.7	1392.7 1387.6 5000 5000 5000 5000 5000 5000 5000 5000	
22N/13W-12R01 M	1400.0	7-13-65 8-18-65 9-23-65 10-06-65 11-10-65 12-09-65 1-19-66 2-23-66 4-06-66 4-20-66	14.0 19.7 24.4 26.0 29.0 22.8 4.6 4.8 5.2 6.3	1356.0 1380.3 1375.6 1371.0 1371.0 1377.2 1355.4 1395.2 1394.8 1393.7	5000 5000 5000 5050 5000 5000 5000 5000 5000 5000	23N/13W-36Q01 M	1403.0	7-13-65 8-18-65 9-23-65 10-06-65 11-10-65 12-09-65 1-19-66 2-23-66 4-06-66 4-21-66	9.5 13.7 17.4 18.3 19.7 19.2 - 0.8 0.4 1.1 1.9	1393.5 1389.3 5000 5050 5000 5000 5000 5000 5000 5000 5000	

TABLE C-2 (Continued)

GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LAYTONVILLE VALLEY 1-12.00											
21N/14W-30A01 M	1688.0	7-13-65	13.2	1674.8	5000	18N/13W-08J01 M (Cont.)	1340.0	12-09-65	3.9	1336.1	5000
8-18-65	1678.0	10.0	1678.0	5000		1-18-66	1.1	1338.9	2-23-66	0.5	1339.5
9-23-65	15.8	1672.2	5000			2-23-66	0.5	1339.5	3-23-66	0.8	1339.2
9-29-65	17.5	1670.5	5050			4-20-66	1.8	1338.2			2000
11-10-65	16.4	1671.6	5000								2000
12-09-65	8.2	1679.8	5000								2000
1-19-66	5.0	1683.0	5000								2000
2-23-66	4.0	1684.0	5000								2050
4-05-66	4.9	1683.1	5000								2050
4-18-66	4.1	1683.9	5000								2050
21N/15W-01L02 M	1682.0	10-05-65	13.7	1668.3	5050	18N/13W-17J01 M	1370.0	7-13-65	11.4	1358.6	5000
4-06-66	4.9	1677.1	5050			8-18-65	14.9	1355.1	9-23-65	16.9	1353.1
21N/15W-12M02 M	1630.0	7-13-65	15.9	1614.1	5000			11-10-65	17.0	1353.0	5050
8-17-65	15.6	1614.4	5000			12-09-65	16.9	1353.1	1-18-66	15.2	1354.8
9-23-65	16.4	1613.6	5000			2-23-66	9.1	1360.9	3-23-66	6.6	1363.4
9-29-65	16.3	1613.7	5050			4-20-66	5.8	1364.2			5000
11-10-65	17.5	1612.5	5000								5000
12-09-65	(1)	1621.5	5000								5000
1-19-66	8.5	1621.5	5000								5000
2-23-66	4.6	1625.4	5000								5000
4-05-66	(1)	7.2	1622.8	5000							5000
4-18-66	(1)	6.9	1623.1	5000							5000
21N/15W-24A01 M	1653.0	7-13-65	5.9	1647.1	5000	18N/13W-18E01 M	1365.0	7-13-65	23.8	1341.2	5000
8-18-65	8.5	1644.5	5000			8-18-65	28.5	1336.5	9-23-65	27.4	1337.6
9-23-65	11.2	1641.8	5000			11-10-65	30.7	1334.3	12-09-65	29.2	1335.8
9-29-65	11.6	1641.4	5050			1-18-66	24.5	1340.5	1-18-66	22.7	1342.3
11-10-65	13.3	1639.7	5000			2-23-66	25.7	1339.3	3-23-66	24.2	1340.8
12-09-65	4.2	1648.8	5000			4-20-66	24.1	1340.9			5000
1-19-66	2.6	1620.4	5000								5000
2-23-66	1.2	1651.8	5000								5000
4-05-66	2.8	1650.2	5000								5050
4-18-66	1.8	1651.2	5000								5050
LITTLE LAKE VALLEY 1-13.00						19N/13W-32F01 M	1347.0	10-05-65	15.2	1331.8	5050
18N/13-08J01 M	1340.0	7-13-65	(1)	1334.7	5000		4-06-66	6.8	1340.2		5050
8-18-65	7.7	1332.3	5000								5050
9-23-65	8.6	1331.4	5000								5050
9-29-65	8.8	1331.2	5050								5050
11-10-65	9.8	1330.2	5000								5000

APPENDIX D

SURFACE WATER QUALITY

INTRODUCTION

This appendix presents surface water quality data collected during the period from October 1, 1965, through September 30, 1966. The data were collected from 27 stream stations in the North Coastal Area.

At the time of field sampling, dissolved oxygen, pH, and temperature measurements are made and gage height and time are noted. Comments on local conditions are noted in field books which are available in the files of the Department of Water Resources.

The mineral constituents were determined in accordance with methods presented in the U. S. Geological Survey Water-Supply Paper 1454, "Methods for Collection and Analyses of Water Samples". The analysis for trace elements is in accordance with the U. S. Geological Survey Water-Supply Paper 1540-B, "Concentration Method for the Spectro-Chemical Determination of Minor Elements in Water".

Each station in this appendix has been assigned a station number. The numbering system is described in Appendix B, "Surface Water Measurements". A sequential number (formerly employed) follows each station name for reference.

TABLE D-1
SAMPLING STATION DATA AND INDEX
North Coastal Area

Station	Station Number	Location MDB & M	Beginning of Record	Frequency of Sampling	Analyses on Page
Bear River near Capetown (7b)	F75100.00	01N-03W-13 ^a	MAY 1964	Semiannually	59, 89
Black Butte River near Covelo (5h)	F63200.00	23N-11W-28	NOV. 1964	Monthly	60, 89
Eel River above Outlet Creek near Dos Rios (5d) (formerly published as "near Dos Rios")	F61329.50	21N-13W-31	APR. 1958	Monthly	61, 87, 89
Eel River at South Fork (5) (formerly published as "near McCann")	F61154.50	01S-03E-04 ^a	APR. 1951	Monthly	62, 89
Eel River, Middle Fork at Dos Rios (5c)	F63010.00	21N-13W-06	APR. 1958	Monthly	63, 87, 91
Eel River, Middle Fork at Eel River Ranger Station (5g)	F63120.00	23N-11W-28	FEB. 1965	Monthly	64, 91
Eel River at Scotia (6)	F61100.00	02N-01E-31 ^a	APR. 1951	Monthly	65, 87, 89
Eel River, South Fork near Miranda (7)	F64100.00	03S-04E-30 ^a	APR. 1951	Monthly	66, 92
Klamath River above Hamburg Reservoir Site (1c)	F31470.00	46N-10W-14	DEC. 1958	Monthly	67, 89
Klamath River below Iron Gate Dam (1f)	F31600.00	47N-05W-17	DEC. 1961	Monthly	68, 87, 90
Klamath River near Klamath (3)	F31100.00	13N-01E-24 ^a	APR. 1951	Monthly	69, 87, 90
Klamath River at Orleans (2c)	F31220.01	11N-06E-31 ^a	JAN. 1964	Monthly	70, 87, 90
Klamath River near Seiad Valley (2b)	F31430.00	46N-12W-03	DEC. 1958	Monthly	71, 87, 90
Mad River near Arcata (6a)	F51100.00	06N-01E-15 ^a	NOV. 1958	Monthly	72, 87, 90
Mattole River near Petrolia (7a)	F71100.00	02S-02W-11 ^a	JAN. 1959	Monthly	73, 90
Mill Creek near Covelo (5e)	F63050.00	22N-12W-22	FEB. 1965	Monthly	74, 91
Outlet Creek near Longvale (5b)	F61350.00	20N-14W-01	MAY 1958	Monthly	75, 91
Redwood Creek at Orick (3b)	F55100.00	10N-01E-04 ^a	NOV. 1958	Monthly	76, 91
Salmon River at Somesbar (2a)	F34100.00	11N-06E-02 ^a	NOV. 1958	Semiannually	77, 91
Scott River near Fort Jones (1b)	F25250.00	44N-10W-29	DEC. 1958	Monthly	78, 91
Shasta River near Yreka (1a)	F21050.00	46N-07W-24	DEC. 1958	Monthly	79, 92
Smith River near Crescent City (3a)	F01300.00	16N-01E-10 ^a	APR. 1951	Monthly	80, 92
Trinity River near Burnt Ranch (4h)	F41376.00	05N-07E-19 ^a	APR. 1958	Monthly	81, 92
Trinity River near Hoopa (4)	F41090.00	08N-05E-31 ^a	APR. 1951	Monthly	82, 87, 92
Trinity River at Lewiston (4a)	F41640.00	33N-08W-17	APR. 1951	Monthly	83, 92
Van Duzen River near Bridgeville (5a)	F65300.00	01N-03W-17 ^a	APR. 1958	Monthly	84, 93
Williams Creek near Covelo (5f)	F63105.00	23N-12W-24	FEB. 1965	Monthly	85, 93

TABLE D-2 MINERAL ANALYSES OF SURFACE WATER

An explanation of column headings follows:

Lab - 5000 U. S. Geological Survey

5050 Department of Water Resources

G.H.- The instantaneous gage height in feet above an established datum.

Q - The instantaneous discharge measured in cubic feet per second (cfs).

DO - The dissolved oxygen content in milligrams per liter is listed first and is followed by the percent saturation.

EC - The specific conductance in micromhos at 25° centigrade.

TDS - Gravimetric determination of total dissolved solids in milligrams per liter.

SUM - Determined by addition of analyzed constituents.

TABLE D-2

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER G.H. Q	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN			MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER		
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃
BEAR RIVER NEAR CAPETOWN (76)														
F75100.00 10/13/65	5000 5050	7.0 5.050	10.5 105	8.0 F 8.0	336	--	--	12	--	2.0	142	--	7.0	--
						.52		.07	2.33		.20		.20	
F75100.00 05/17/66	5000 5050	6.0 5.050	9.7 108	7.0 F 8.0	252	35	5.5	8.3	1.2	0.0	114	30	6.6	0.1
						1.75	.45	.36	.03	1.03	1.87	.62	.19	0.1
						68	17	14	1	70	70	23	.7	
F75100.00 09/14/66	5000 0855	3.0 5.050	10.3 104	6.1 F 8.1	378	58	7.3	12	1.7	0.0	178	45	7.0	0.4
						2.89	.60	.52	.04	2.92	.94	.20	.01	--
						71	15	13	1	72	23	5		

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	DATE	LAR	G.H.	DO	TEMP	LAH	EC	MINERAL CONSTITUENTS IN			MILLIEQUIVALENT PER LITER			MILLIGRAMS PER LITER					
								FLD	FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	N03	
BLACK BUTTE RIVER NEAR COVELO (5h)																			
F63200.00	10/14/65	5000	10.11	9.7	61	F	8.3	402	--	--	7.1	--	2.0	156	--	0.1	--	0.0	
	n915	5050		92			7.7			.31		.07	2.56		.06				
F63200.00	10/28	5000	10.28	10.1	55	F	8.4	427	--	--	7.2	--	5.0	151	--	2.6	2.0	--	
	11/11/65	5000		100			8.0			.31		.17	2.48		.07	.03	0.1	--	
F63200.00	12/07/65	5000	11.0	11.7	44	F	8.3	204	--	--	4.4	--	1.0	87	--	1.2	0.2	--	
	1420	5050		100			7.7			.19		.03	1.43		.03		0.0	--	
F63200.00	01/13/66	5000	13.024	12.6	41	F	8.2	174	--	--	3.5	--	0.0	80	--	0.7	0.4	--	
	1120	5050		103			7.7			.15		.15	1.31		.02	.01	0.0	--	
F63200.00	02/17/66	5000	13.010	12.9	38	F	8.3	210	--	--	4.1	--	1.0	95	--	0.5	0.2	--	
	1000	5050		102			7.6			.18		.03	1.56		.01		0.0	--	
F63200.00	03/16/66	5000	14.002	12.0	41	F	8.1	144	--	--	3.2	--	0.0	69	--	0.8	0.7	--	
	1515	5050		99			7.6			.14		.13	1.13		.02	.01	0.0	--	
F63200.00	04/12/66	5000	14.60	11.3	46	F	8.1	121	--	--	2.7	--	0.0	61	--	0.4	0.8	--	
	1255	5050		100			7.6			.12		.12	1.00		.01	.01	0.0	--	
F63200.00	05/16/66	5000	13.080	8.6	63	F	8.1	154	25	2.3	3.1	0.8	0.0	76	14	0.8	0.7	--	
	1345	5050		142			93			1.25		.13	.02	1.25	.29	.02	.01	0.0	--
F63200.00	06/13/66	5000	13.019	7.7	80	F	8.3	242	--	--	5.9	--	1.0	114	--	1.1	--	0.1	--
	1320	5050		52			8.0			.26		.03	1.87		.03				--
F63200.00	07/20/66	5000	3.084	7.7	67	F	8.5	326	--	--	5.5	--	4.0	135	--	1.4	0.2	--	
	0730	5050		21			7.9			.24		.13	2.21		.04		0.0	--	
F63200.00	08/17/66	5000	8.98	7.9	79	F	8.3	379	--	--	6.3	--	2.0	148	--	1.8	0.5	--	
	1510	5050		10			8.2			.27		.07	2.43		.05	.01	0.0	--	
F63200.00	09/14/66	5000	14.67	8.0	70	F	8.1	397	64	8.4	6.3	1.5	0.0	145	85	1.8	0.1	--	
																0.4	0.5	--	

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	DATE	G.H.	DO	TEMP	PH	EC	MINERAL CONSTITUENTS IN			MILLIEQUIVALENT PER LITER			MILLIGRAMS PER LITER							
							LAR LAB FLD	CA MG	NA K	CO ₃ HCO ₃	SO ₄ CL	PERCENT REACTANCE VALUE	NO ₃	F	R	SIO ₂	TDS	TH SUM	NCH	
EEL RIVER ABOVE OUTLET CREEK NEAR DOS RIOS (5d)																				
F61329.50	10/14/65	5000	9.2	63 F	8.2	285	--	--	11	--	0.0	168	--	6.7	0.3	--	0.4	--	--	120
	1140	5050	9R		8.0				.48			2.76		.19						0
F61329.50	11/11/65	5000	9.9	58 F	8.5	316	--	--	11	--	5.0	139	--	8.0	1.8	--	0.6	--	--	141
	0905	5050	99		7.8				.48			.17	2.28	.23	.03					19
F61329.50	12/09/65	5000	11.4	48 F	8.3	217	--	--	7.1	--	1.0	105	--	3.9	0.5	--	0.2	--	--	97
	0930	5050	101		7.8				.31			.03	1.72	.11	.01					10
F61329.50	01/12/66	5000	12.2	44 F	8.1	133	--	--	4.3	--	0.0	69	--	1.7	0.4	--	0.0	--	--	58
	1450	5050	102		7.6				.19			1.13		.05	.01					2
F61329.50	02/16/66	5000	12.2	45 F	8.2	154	--	--	4.9	--	0.0	80	--	1.3	0.4	--	0.1	--	--	68
	1505	5050	104		7.6				.21			1.31		.04	.01					3
F61329.50	03/16/66	5000	11.7	48 F	8.2	137	--	--	4.4	--	0.0	72	--	1.5	0.7	--	0.1	--	--	60
	1205	5050	104		7.4				.19			1.18		.04	.01					1
F61329.50	04/12/66	5000	11.0	52 F	8.1	129	--	--	4.3	--	0.0	68	--	0.8	0.5	--	0.1	--	--	57
	1015	5050	103		7.4				.19			1.12		.02	.01					1
F61329.50	05/16/66	5000	8.4	70 F	8.3	231	28	8.5	6.6	1.3	1.0	121	17	3.3	0.2	0.2	10	135	105	
	1135	5050	96		8.1				.40			.29	.03	1.98	.35	.09			136	5
F61329.50	06/13/66	5000	9.3	75 F	8.5	244	--	--	8.2	--	2.0	121	--	4.0	--	--	0.3	--	--	112
	1100	5050	112		8.1				.36			.07	1.98	.11						10
F61329.50	07/20/66	5000	9.2	71 F	8.5	252	--	--	10	--	3.0	113	--	5.0	0.6	--	0.3	--	--	110
	1015	5050	107		8.3				.44			.10	1.85	.14	.01					13
F61329.50	08/17/66	5000	11.2	83 F	8.6	258	--	--	11	--	4.0	104	--	6.5	0.6	--	0.3	--	--	109
	1340	5050	147		8.4				.48			.13	1.71	.18	.01					17
F61329.50	09/14/66	5000	12.1	74 F	8.4	256	27	8.4	11	1.5	3.0	97	35	8.0	0.8	--	0.3	5.6	143	
	1435	5050	146		8.4				.35			.04	.10	1.59	.73	.23			148	102

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q.	NO SAMPLER	TEMP SAT	PH LAR FLD	EC LAR FLD	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HC _{CO₃} CL	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER		
							T _H TDS SUM	N _{CH}	F SI02	θ SI02	T _H TDS SUM	N _{CH}
EEL RIVER AT SOUTH FORK (5)												
F61154.50 10/13/65 1220	9.3 96	62 F	8.3 7.9	345	--	8.8 .38	--	3.0 .10	169 2.77	--	7.1 .20	--
F61154.50 11/10/65 1110	9.7 94	57 F	8.5 7.8	392	--	9.5 .41	--	5.0 .17	178 2.92	--	8.7 .25	--
F61154.50 12/08/65 0900	11.5 101	49 F	8.2 7.6	194	--	5.9 .26	--	0.0 0.0	91 1.49	--	0.2 .01	--
F61154.50 01/12/66 1030	12.2 100	44 F	8.2 7.7	155	--	4.1 .18	--	0.0 0.0	78 1.28	--	1.7 .05	--
F61154.50 02/16/66 1135	12.4 104	45 F	8.2 7.5	184	--	5.0 .22	--	0.0 0.0	93 1.53	--	1.4 .04	--
F61154.50 03/15/66 1455	- 102	52 F	8.1 7.6	142	--	3.9 .17	--	0.0 0.0	75 1.23	--	1.2 .03	--
F61154.50 04/13/66 1015	11.4 113	59 F	8.1 7.7	137	--	3.8 .17	--	0.0 0.0	73 1.20	--	0.7 .02	--
F61154.50 05/17/66 0735	9.6 1250	60 F	8.2 97	177	26	4.4 .36	1.0 .17	0.0 .03	94 1.54	11 .23	1.2 .03	--
F61154.50 06/13/66 1730	9.8 319	83 F	8.2 7.9	258	--	6.4 .28	--	0.0 0.0	138 2.26	--	3.0 .08	--
F61154.50 07/19/66 1700	9.4 108	72.5 F	8.5 8.1	315	--	6.5 .24	--	6.0 .20	157 2.57	--	3.9 .11	--
F61154.50 08/17/66 0925	8.2 93	71 F	8.4 7.8	349	--	8.0 .35	--	2.0 .07	181 2.97	--	5.1 .14	--
F61154.50 09/14/66 5000	9.1 100	68 F	7.9 7.9	366	48	13 2.40	1.6 1.07	0.5 .37	191 3.13	33 .69	5.0 .14	1.3 .02

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE	LAB TIME	G.H. SAMPLE	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER			TDS SUM	TH NCH
							CA	MG	NA	K	CO ₃	SO ₄	CL	

MIDDLE FORK EEL RIVER AT EEL RIVER RANGER STATION (5g)

F63120.00 10/14/65	5000 0900	5050	8.8 95	63 F	8.5 8.0	488	--	--	19 .83	--	7.0 .23	147 2.41	--	1.40 1.13	0.1
F63120.00 11/11/65	5000 1050	5050	10.2 102	56 F	8.5 8.0	411	--	--	17 .74	--	5.0 .17	130 2.13	--	25 .71	1.7 .03
F63120.00 12/08/65	5000 1355	5050	12.1 103	44 F	8.2 7.5	130	--	--	3.4 .15	--	0.0 1.02	62 .06	--	2.1 .06	0.2
F63120.00 01/13/66	5000 1140	5050	12.3 101	41 F	8.2 7.6	123	--	--	3.4 .15	--	0.0 1.02	62 .04	--	1.4 .01	0.4
F63120.00 02/17/66	5000 1010	5050	14.0 112	39 F	8.2 7.4	143	--	--	3.6 .16	--	0.0 1.15	70 .04	--	1.5 .04	0.1
F63120.00 03/16/66	5000 1515	5050	12.2 103	43 F	8.1 7.4	107	--	--	2.4 .10	--	0.0 .09	55 .90	--	0.9 .03	1.0 .02
F63120.00 04/12/66	5000 1310	5050	11.6 102	46 F	8.0 7.3	97	--	--	2.0 .09	--	0.0 .09	45 .74	--	0.4 .01	0.4
F63120.00 05/16/66	5000 1345	5050	9.9 99	56 F	8.0 7.3	90	14	1.3	2.1 .70	0.8 .09	0.0 .02	45 .74	7.0 .15	1.2 .03	0.8 .01
F63120.00 06/13/66	5000 1330	5050	8.5 113	82 F	8.2 8.0	160	--	--	4.1 .18	--	0.0 1.25	76 .10	--	3.5 .10	0.6
F63120.00 07/20/66	5000 0710	5050	9.0 98	63.5 F	8.5 8.1	291	--	--	9.5 .41	--	3.0 .10	118 1.94	--	1.4 .39	0.3
F63120.00 08/17/66	5000 1520	5050	6.2 80	79 F	8.3 7.9	373	--	--	1.3 .57	--	2.0 .07	134 2.20	--	2.5 .71	0.7 .01
F63120.00 09/14/66	5000 0900	5050	9.8 115	70 F	8.4 8.5	417	51	10	1.8 .05	5.0 .82	1.26 .17	49 1.02	--	0.2 .96	0.5 .01

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	DATE	LAR	G.H.	DO	TEMP	PH	EC	MINERAL CONSTITUENTS IN				MILLIEQUIVALENT PER LITER			MILLIGRAMS PER LITER							
								LAB FLD	LAB FLD	CA	MG	NA	K	C03	HCO3	504	CL	NO3	F	S1O2	B	TDS
EEL RIVER AT SCOTIA (6)																						
F61100.00	10/12/65	5000	8.83	11.3	65 F	8.5	352	--	--	10	--	5.0	189	--	6.8	--	--	0.1	--	--	--	168
1525	5050	132	119	8.1				.44		.17	3.10		.19									5
F61100.00	11/09/65	5000	9.56	9.7	59 F	8.6	369	--	--	10	--	7.0	187	--	8.0	--	--	0.1	--	--	--	180
1525	5050	446	96					.44		.23	3.07		.23									15
F61100.00	12/07/65	5000	11.69	11.8	51 F	8.4	284	--	--	8.1	--	3.0	124	--	7.1	--	--	0.0	--	--	--	130
1500	5050	3130	105	8.1					.35	.10	2.03		.20									24
F61100.00	01/11/66	5000	16.20	11.5	46 F	8.2	154	--	--	5.0	--	0.0	76	--	1.7	--	--	0.0	--	--	--	67
1645	5050	18300	96	7.6				.22										.05				5
F61100.00	02/15/66	5000	13.38	11.8	45 F	8.3	180	--	--	5.3	--	1.0	89	--	1.8	--	--	0.0	--	--	--	79
1610	5050	6680	98	7.6					.23									.05				5
F61100.00	03/15/66	5000	16.00	10.9	53 F	8.0	146	--	--	4.5	--	0.0	74	--	1.6	--	--	0.0	--	--	--	64
1530	5050	16900	100	7.6					.20									.05				4
F61100.00	04/13/66	5000	15.25	10.8	59 F	7.8	144	22	2.2	4.2	1.7	0.0	73	10	1.4	0.7	0.0	0.0	9.3	--	64	
1115	5050	12500	106	7.7				1.10	.18	.18	.04										87	4
F61100.00	05/17/66	5000	11.75	10.0	63 F	8.2	220	28	7.8	5.5	1.1	0.0	118	15	3.8	0.1	0.2	0.1	9.5	130	102	
0840	5050	1500	103	7.9				1.40	.64	.24	.03										129	5
F61100.00	06/14/66	5000	11.69	9.8	79 F	8.3	276	38	8.5	7.0	1.3	2.0	148	19	3.4	0.8	0.3	0.0	9.0	--	130	
0645	5050	680	120	8.0				1.90	.70	.30	.03										162	5
F61100.00	07/19/66	5000	9.64	9.7	68 F	8.2	326	43	12	8.3	1.5	0.0	181	20	4.9	0.7	0.2	0.0	9.4	--	156	
1600	5050	231	106	8.1				2.15	.99	.36	.04										189	8
F61100.00	08/16/66	5000	9.35	10.3	77 F	8.5	343	44	13	9.8	1.7	5.0	181	23	5.7	1.0	0.1	0.1	10	--	164	
1435	5050	125	123	8.4				2.20	1.07	.43	.04										202	7
F61100.00	09/13/66	5000	9.26	13.8	71 F	8.4	303	32	13	1.7	6.0	147	23	6.7	1.1	0.2	0.1	11	171	134		
1550	5050	107	8.4					1.60	1.07	.44	.04									177	4	

TABLE D-2 (Continued)
MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q.	DO SAT	TEMP	PH LAH FLD	EC LAB FLD	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ MCO ₃	PERCENT REACTANCE SO ₄ CL	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER			
								TDS SUM	TH SUM	NCH	F B SiO ₂	CL NO ₃	TDS SUM	
SOUTH FORK EEL RIVER NEAR MIRANDA (7)														
F64100.00 10/13/65 1400	5000 5050	2.81 111	10.4 F	8.6 8.1	339	--	.44	10	--	8.0 .27	181 2.97	--	7.0 .20	2.1 .03
F64100.00 11/10/65 1235	5000 5050	3.53 220	10.1 98	8.5 7.8	298	--	.42	9.6	--	4.0 .13	147 2.41	--	6.5 .18	2.0 .03
F64100.00 12/08/65 1020	5000 5050	3.95 380	11.1 103	5.3 7.6	222	--	.34	7.8	--	1.0 .03	110 1.80	--	4.7 .13	0.6 .01
F64100.00 01/12/66 1120	5000 5050	6.94 3890	11.6 99	4.7 7.4	8.1	130	--	5.3	--	0.0 .23	66 1.08	--	2.6 .07	0.5 .01
F64100.00 02/16/66 1215	5000 5050	5.23 1310	12.3 107	4.8 7.4	152	--	.26	5.9	--	0.0 .26	77 1.26	--	2.6 .07	0.3 .01
F64100.00 03/16/66 0940	5000 5050	7.41 4740	11.3 98	4.8 7.2	124	--	.23	5.2	--	0.0 .23	62 1.02	--	2.2 .06	1.1 .02
F64100.00 04/13/66 0850	5000 5050	6.11 2500	10.9 98	5.1 7.3	131	--	.23	5.3	--	0.0 .23	67 1.10	--	1.2 .03	0.4 .01
F64100.00 05/17/66 0655	5000 5050	4.53 465	9.3 95	6.1 7.9	211	26	.58 .33	7.5 .04	0.0	113 26	10 1.85	0.5 .21	0.2 .13	0.2 .13
F64100.00 06/13/66 1650	5000 5050	9.8 220	8.3 126	8.3 8.1	234	--	.36	8.2	--	2.0 .07	125 2.05	--	3.8 .11	0.0 .11
F64100.00 07/19/66 1800	5000 5050	9.5 80	7.3 110	8.5 8.3	273	--	.40	9.1	--	4.0 .13	144 2.36	--	5.0 .14	0.6 .01
F64100.00 08/17/66 1010	5000 5050	7.9 43	7.5 93	8.2 8.1	286	--	.44	10	--	0.0 2.61	159 2.61	--	6.0 .17	0.8 .01
F64100.00 09/14/66 0000	5000	11.5 1120	7.0 8.0	7.0 8.0	304	--	.44	--	0.0 1.6	12 0.0	12 1.67	--	6.4 .19	0.4 .03

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLE	G.H. Q.	00 SAT	TEMP	PH FLD	EC LAB FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER			TDS SUM	TH NCH					
							CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	A	SIO ₂	SiO ₂
KLAMATH RIVER ABOVE HAMBURG RESERVOIR SITE (Loc.)															---				
F31470.00 10/05/65	5000 5050	1020	9.3 96	59 F	8.4 7.7	292	--	--	26	--	4.0 .13	101 1.66	--	6.3 .18	3.7 .06	--	0.1	--	--
F31470.00 11/02/65	5000 5050	1030	10.0 97	53 F	8.0 7.5	212	--	--	.78	--	0.0 1.61	98 .13	--	4.5 .09	5.7 .13	--	0.1	--	--
F31470.00 11/30/65	5000 5050	1055	11.2 98	45 F	8.2 7.3	189	--	--	.74	--	0.0 1.46	89 .12	--	4.4 .11	6.7 .07	--	0.0	--	--
F31470.00 01/04/66	5000 5050	1130	12.5 97	37 F	7.6 7.6	232	--	--	.78	--	0.0 1.79	109 .15	--	5.4 .09	5.3 .09	--	0.1	--	--
F31470.00 02/08/66	5000 5050	1040	12.9 102	38 F	8.1 7.6	224	--	--	.74	--	0.0 1.87	114 .18	--	6.4 .08	4.7 .08	--	0.1	--	--
F31470.00 03/09/66	5000 5050	1155	11.7 100	44 F	8.1 7.8	287	--	--	.96	--	0.0 1.95	119 .16	--	5.5 .06	3.7 .06	--	0.1	--	--
F31470.00 04/04/66	5000 5050	1410	11.3 109	53 F	8.4 7.0	260	--	--	.74	--	2.0 .07	108 1.77	--	4.9 .14	2.4 .04	--	0.2	--	--
F31470.00 05/02/66	5000 5050	1435	11.5 121	60 F	8.2 8.4	227	18	8.0 .90	18	2.3 .06	0.0 .78	116 1.90	18 .37	4.4 .12	0.5 .01	--	0.1	19	150
F31470.00 06/08/66	5000 5050	1010	9.6 104	63 F	8.5 8.2	269	--	--	1.22	--	3.0 .10	144 2.36	--	5.9 .17	0.7 .01	--	0.1	--	--
F31470.00 07/12/66	5000 5050	n825	9.0 102	67 F	7.9 8.0	269	--	--	1.22	--	0.0 2.35	143 .17	--	6.0 .02	1.5 .02	--	0.0	--	--
F31470.00 09/12/66	5000 5050	1100	6.2 F	7.5 8.7	260	15	9.8 .75	26	3.3 .08	0.0 1.013	111 1.82	31 .64	7.0 .20	4.2 .07	--	0.1	26	178	
						27	29	41	3		67	23	7	3			177	0	

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAQ G.H. SAMPLER Q.	DO SAT	TEMP FLD	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER MILLIEQUIVALENT PER LITER			MILLIGRAMS PER LITER						
						CA	MG	NA	K	CO ₃	HC ₀₃	SO ₄	CL	NO ₃	F	SIO ₂	TDS	TH SUM
KLAMATH RIVER BELOW IRON GATE DAM (1°F)																		
F31600.00 10/05/65 0845	5000 2530	4.65 6.9	6.4 7.3	59 F 7.0	8.6 7.3	280 --	-- --	26 1.13	-- .27	83 1.36	-- --	5.5 .16	3.7 .06	-- --	0.0 --	-- --	-- 77	0
F31600.00 11/02/65 0910	5000 3010	5.12 7.4	7.4 7.2	54 F 7.2	7.7 7.2	187 --	-- --	16 .70	-- --	78 1.28	-- --	3.2 .09	6.4 .10	-- --	0.1 --	-- --	-- 56	0
F31600.00 11/30/65 0930	5000 4380	5.79 9.8	11.0 7.2	45 F 7.2	8.0 7.2	181 --	-- --	16 .70	-- --	76 1.25	-- --	2.9 .08	7.3 .12	-- --	0.0 --	-- --	-- 52	0
F31600.00 01/04/66 0930	5000 3360	12.1 9.6	12.1 7.4	37 F 7.4	7.7 7.4	197 --	-- --	18 .78	-- --	0.0 1.54	-- --	3.0 .08	5.5 .09	-- --	0.0 --	-- --	-- 57	0
F31600.00 02/08/66 0915	5000 1650	11.5 9.3	38 F 7.2	7.7 7.2	169 --	-- --	14 .61	-- --	0.0 1.28	-- --	3.6 .10	5.8 .09	-- --	0.1 --	-- --	-- 50	0	
F31600.00 03/09/66 1035	5000 1610	11.1 9.5	42 F 7.2	8.1 7.2	275 --	-- --	26 1.13	-- --	0.0 1.53	-- --	4.5 .13	4.8 .08	-- --	0.0 --	-- --	-- 82	6	
F31600.00 04/04/66 1245	5000 1830	10.9 10.9	54 F 7.7	8.3 7.7	282 --	-- --	22 .96	-- --	1.0 .03	1.02 1.67	-- --	5.5 .16	2.8 .05	-- --	0.1 --	-- --	-- 92	7
F31600.00 05/02/66 1300	5000 1060	12.3 13.0	59 F 8.4	7.9 8.4	219 .70	14 .54	23 1.00	2.5 .06	0.0 1.71	1.04 .74	23 .48	3.3 .09	1.6 .03	-- --	0.0 0.1	21 1.46	152 146	62 0
F31600.00 06/08/66 0825	5000 694	11.2 12.3	62 F 8.3	8.5 8.3	278 --	-- --	36 1.57	-- --	4.0 .13	144 2.36	-- --	5.0 .14	1.1 .02	-- --	0.1 --	-- --	-- 66	0
F31600.00 07/12/66 0700	5000 743	10.4 11.5	63 F 7.8	8.2 7.8	271 --	-- --	30 1.31	-- --	0.0 2.21	135 2.16	-- --	4.7 .13	1.9 .03	-- --	0.0 --	-- --	-- 73	0
F31600.00 08/08/66 0915	5000 1050	9.6 11.6	71 F 8.2	8.3 8.2	365 --	-- --	39 1.70	-- --	2.0 .07	132 2.16	-- --	7.5 .21	1.6 .03	-- --	0.0 --	-- --	-- 99	0
F31600.00 09/12/66	5000 1300	8.9 10.1	65 F 7.8	8.0 7.8	240 .70	14 .68	8.3 1.04	3.2 0.8	0.0 30	94 1.54	-- .62	4.5 .13	5.0 .08	-- --	0.0 --	-- 27	69	162

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	DATE	LAB TIME	G.H. DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE			MILLIEQUIVALENT PER LITER			MILLIGRAMS PER LITER								
							CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	N03	F	A	S102	TDS SUM	NCH	
KLIAMATH RIVER NEAR KLIAMATH (3)																-					
F31100.00 10/12/65	5000 1240	4320 5050	4.21 113	10.6 94	66 F 7.6	8.4 7.9	270	--	--	18 .79	--	5.0 .17	110 1.80	--	5.4 .15	--	--	0.0	--	--	95 0
F31100.00 11/09/65	5000 0930	7500 5050	10.0 101	55 F 7.4	8.2 7.4	204	--	--	11 .48	--	0.0	100 1.64	--	3.4 .10	--	--	0.1	--	--	78 0	
F31100.00 12/07/65	5000 0840	13000 5050	11.7 98	48 F 7.4	8.2 7.4	166	--	--	7.4 .32	--	0.0	81 1.33	--	3.0 .08	--	--	0.0	--	--	69 3	
F31100.00 01/11/66	5000 1000	31400 5050	12.0 106	44 F 7.4	8.1 7.5	161	--	--	4.2 .18	--	0.0	83 1.36	--	2.0 .06	--	--	0.0	--	--	73 5	
F31100.00 02/15/66	5000 0950	13800 5050	13.0 100	44 F 7.2	8.2 7.5	167	--	--	5.0 .22	--	0.0	88 1.44	--	1.8 .05	--	--	0.0	--	--	75 3	
F31100.00 03/14/66	5000 1650	36500 5050	11.5 106	49 F 7.2	8.1 7.6	130	--	--	3.6 .16	--	0.0	70 1.15	--	1.1 .03	--	--	0.0	--	--	60 3	
F31100.00 04/14/66	5000 1145	29000 5050	11.3 106	55 F 7.6	7.9 7.5	128	13 .65	5.5 .45	4.3 .19	0.9 .02	0.0	64 1.05	8.0 1.83	1.2 1.13	1.2 .13	0.0 .03	0.6 .01	0.0 0.0	13	--	55 3
F31100.00 05/18/66	5000 0900	14900 5050	9.9 112	60 F 7.7	8.1 7.7	125	12 .60	6.1 .50	3.9 .17	0.8 .02	0.0	68 1.12	6.0 1.12	1.4 .12	1.4 .04	0.4 .01	0.4 .01	0.0 0.0	12	85	55 0
F31100.00 06/11/66	5000 1505	7620 3540	8.8 103	83 F 8.1	8.0 8.1	154	17 .85	5.7 .47	5.7 .25	1.0 .03	0.0	86 1.41	8.0 1.86	1.6 1.17	1.6 .05	0.4 .01	0.4 .01	0.0 0.0	13	--	66 0
F31100.00 07/18/66	5000 1710	3.76 2570	9.3 95	69 F 8.2	8.2 8.2	205	22 1.10	8.0 .66	8.3 .36	1.5 .04	0.0	112 1.04	12 1.04	3.2 .25	3.2 .09	0.8 .01	0.2 0.2	0.0 0.0	15	--	88 0
F31100.00 08/16/66	5000 0945	5050	3.17 100.1	8.4 64 F	72 F 8.2	274	24 1.20	1.0 .82	1.8 .78	2.4 .06	0.0	129 2.12	31 .64	0.8 .14	0.8 .01	0.1 .01	0.1 0.0	0.0 0.0	15	--	103 0
F31100.00 09/13/66	5000 1020	2560 5050	3.16 100.1	64 F 8.2	8.1 8.2	246	22 1.10	9.6 .79	15 .65	2.2 .06	0.0	121 1.98	23 .48	4.9 .14	1.1 .02	0.2 .02	0.0 0.0	16	148	94 0	

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	DATE	TIME	SAMPLE	G.R.	DO	TEMP	PH	EC	MINERAL CONSTITUENTS IN				MILLIEQUIVALENT PER LITER				MILLIGRAMS PER LITER								
									LAR	LAQ	FLD	CA	MG	NA	K	CO ₃	HCO ₃	504	CL	NOS	F	S	TDS	TOS	TH
KLAMATH RIVER AT ORLEANS (2c)																									
F31220.01	10/11/65	5000	3300	10.0	61	F	8.4	275	--	--	.96	22	--	3.0	108	--	5.5	--	0.0	--	--	--	--	88	0
	1345	5050	103				7.8							.10	1.77		.16								
F31220.01	11/08/65	5000	6270	10.9	55	F	7.8	195	--	--	.57	13	--	0.0	92	--	3.7	--	0.1	--	--	--	--	68	0
	1230	5050	104				7.6								1.51			.10							
F31220.01	12/06/65	5000	9160	12.3	48	F	8.1	165	--	--	.48	11	--	0.0	79	--	3.0	--	0.0	--	--	--	--	60	0
	1200	5050	108				7.4								1.30		.08								
F31220.01	01/10/66	5000	24500	13.1	42	F	8.0	148	--	--	.27	6.1	--	0.0	77	--	2.0	--	0.0	--	--	--	--	61	0
	1300	5050	106				7.4										1.26		.06						
F31220.01	02/14/66	5000	8500	13.5	41	F	8.3	171	--	--	.34	7.8	--	2.0	88	--	2.3	--	0.0	--	--	--	--	71	0
	1320	5050	108				7.4										.07	1.44	.06						
F31220.01	03/25/66	5000	16700	12.6	50	F	8.0	157	--	--	.29	6.7	--	0.0	82	--	1.9	--	0.0	--	--	--	--	68	1
	1240	5050	113				7.3										1.34		.05						
F31220.01	04/15/66	5000	27200	11.8	51	F	8.2	143	--	--	.27	6.2	--	0.0	68	--	1.0	--	0.0	--	--	--	--	58	2
	1115	5050	108				7.4										1.12		.03						
F31220.01	05/19/66	5000	9750	10.1	57	F	7.7	122	11	6.0	.55	4.9	0.8	0.0	68	5.0	1.9	0.6	0.1	0.0	12	78	52	0	
	0945	5050	99				7.0										.21	.02	1.12	.10	.05	.01			
F31220.01	06/15/66	5000	5190	9.6	67	F	8.2	146	--	--	.32	7.3	--	0.0	80	--	2.5	--	0.0	--	--	--	--	58	0
	1025	5050	106				7.5											1.31		.07					
F31220.01	07/18/66	5000	2400	9.2	68	F	8.5	207	--	--	.52	12	--	3.0	110	--	.0	--	0.0	--	--	--	--	82	0
	1310	5050	102				7.8										.10	1.80	.11						
F31220.01	08/15/66	5000	1850	9.2	73	F	8.2	297	--	--	1.04	24	--	0.0	130	--	6.0	--	0.0	--	--	--	--	98	0
	1125	5050	108				8.2											2.13		.17					

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR G.H. Q.	OO SAT	TEMP	PH LAH FLD	EC LAB FLD	MINERAL CONSTITUENTS IN CA MG NA K				PERCENT REACTANCE VALUE CO ₃ HC ₀₃ SO ₄ CL	NO ₃	MILLIGRAMS PER LITER TH TOS SUM			
						F	H	S102	NCH			F	H	S102	NCH
KLAMATH RIVER NEAR SELAD VALLEY (26)															
F31430.00 10/05/65 1115	5000 5050	2750	9.7 103	61 F 7.9	304	--	--	26	--	0.0 1.92	117	--	0.1	--	--
F31430.00 11/02/65 1130	5000 5050	3650	5.68 101	54 F 7.7	216	--	--	18	--	0.0 1.64	100	--	0.1	--	--
F31430.00 11/30/65 1145	5000 5050	5050	6.75 100	45 F 7.4	201	--	--	16	--	0.0 1.56	95	--	0.0	--	--
F31430.00 01/04/66 1230	5000 5050	99	12.9 104	36 F 7.6	209	--	--	14	--	0.0 1.64	100	--	5.0	3.9	--
F31430.00 02/08/66 1120	5000 5050	3250	12.8 104	40 F 7.7	220	--	--	13	--	0.0 1.92	117	--	0.1	--	--
F31430.00 03/09/66 1230	5000 5050	4200	13.2 115	45 F 7.5	225	--	--	13	--	0.0 1.80	110	--	3.1	2.3	--
F31430.00 04/04/66 1445	5000 5050	6200	11.0 106	53 F 7.7	188	--	--	8.7	--	1.0 0.03	89	--	0.0	--	--
F31430.00 05/02/66 1515	5000 5050	3540	10.7 111	59 F 8.2	176	15	7.9 .75	9.8 .43	1.3 .03	0.0 1.54	94	10	2.4	1.0	--
F31430.00 06/08/66 1045	5000 5050	2160	10.1 110	63 F 8.2	218	--	--	15	--	0.0 .65	123	--	3.9	0.5	--
F31430.00 07/12/66 0900	5000 5050	1160	9.8 101	68 F 8.2	254	--	--	21	--	4.0 .91	132	--	5.4	1.1	--
F31430.00 09/12/66 1140	5000 5050	1480	10.0 107	62 F 8.2	261	15	10 .75	24 .82	3.0 1.04	0.0 .08	107	29	6.0	3.4	--
						28	30	39	3	.66	1.75	.60	.17	.05	26
											23	7	169	173	78
															0

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER Q.	G.H. SAT	DO TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER								
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	F				
MAD RIVER NEAR ARGATA (6a)																		
F51100.00 10/11/65	5000 1740	5A	10.0 103	63 F 8.0	246	--	--	5.6	--	3.0 .10	133 2.18	--	2.4 .07	--	0.1	--	--	118 4
F51100.00 11/08/65	5000 1525	109	10.6 109	58 F 8.0	242	--	--	5.0	--	4.0 .13	122 2.00	--	2.5 .07	--	0.1	--	--	116 10
F51100.00 12/06/65	5000 1435	1120	11.3 104	53 F 7.5	134	--	--	3.6	--	0.0 .16	64 1.05	--	2.1 .06	--	0.0	--	--	58 6
F51100.00 01/10/66	5000 1620	4200	12.8 100	41 F 7.6	111	--	--	3.1	--	0.0 .13	56 .92	--	1.4 .04	--	0.0	--	--	48 2
F51100.00 02/14/66	5000 1550	1710	12.6 106	46 F 7.4	121	--	--	3.3	--	0.0 .14	60 .98	--	1.2 .03	--	0.0	--	--	54 5
F51100.00 03/14/66	5000 1210	3820	11.7 101	48 F 7.2	105	--	--	3.0	--	0.0 .13	54 .89	--	1.4 .04	--	0.0	--	--	47 3
F51100.00 04/14/66	5000 0900	2250	11.4 102	51 F 7.3	108	--	--	3.3	--	0.0 .14	53 .87	--	1.0 .03	--	0.0	--	--	47 4
F51100.00 05/18/66	5000 0720	195	9.7 93	57 F 7.7	170	24	4.4	3.8	1.0	0.0 .20	90 .36	12 .03	2.0 .25	0.4 .25	0.1 .01	0.1	6.7 1.01	78 99
F51100.00 06/15/66	5000 0620	132	9.0 93	63 F 7.7	209	--	--	4.7	--	0.0 .20	116 1.90	--	2.0 .06	--	0.0	--	--	100 5
F51100.00 07/18/66	5000 1530	54	9.3 107	73 F 8.1	231	--	--	5.5	--	2.0 .07	122 2.00	--	2.8 .08	--	0.0	--	--	110 7
F51100.00 08/15/66	5000 1435	65	9.5 108	72 F 8.3	228	--	--	5.2	--	0.0 .23	125 2.05	--	2.1 .06	--	0.0	--	--	108 6
F51100.00 09/12/66	5000 70	9.9 106	66 F 8.1	229	35	5.7	4.6	1.1	0.0 .20	126 .03	15 .31	2.1 .07	1.0 .02	0.0	9.4 0.0	133 136		

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. Q.	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN CA MG NA K			MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER			
						CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	A	SIO ₂	TDS	
MATTOLE RIVER NEAR PETROLIA (7a)															
F71100.00 10/13/65 1045	5000 5050	4.22 3.4	10.8 11.3	6.4 F 8.0	287	--	--	8.8 .38	--	3.0 .10	133 2.18	--	4.4 .12	--	
F71100.00 11/09/65 1325	5000 5050	4.73 1.78	11.3 10.7	5.6 F 8.0	261	--	--	8.3 .36	--	1.0 .03	105 1.72	--	4.0 .11	--	
F71100.00 12/07/65 1255	5000 5050	6.11 8.33	11.1 9.8	5.0 F 7.4	165	--	--	6.9 .30	--	0.0 1.13	69 .11	--	4.0 .0	--	
F71100.00 01/11/66 1430	5000 5050	3.40 1.0	11.2 9.0	4.3 F 7.3	8.0 7.3	119	--	--	5.2 .23	--	0.0 .85	52 .08	--	2.8 .0	--
F71100.00 02/15/66 1355	5000 5050	5.83 8.90	11.5 10.0	4.9 F 7.3	8.0 7.3	140	--	--	5.7 .25	--	0.0 1.00	61 .06	--	2.1 .0	--
F71100.00 03/15/66 1230	5000 5050	8.26 3.860	11.3 10.2	5.2 F 7.2	7.8 7.2	169	--	--	4.7 .20	--	0.0 .79	48 .07	--	2.4 .0	--
F71100.00 04/13/66 1430	5000 5050	5.51 5.62	10.8 10.0	5.4 F 7.4	8.2 7.4	130	--	--	5.3 .23	--	0.0 .97	59 .04	--	1.5 .0	--
F71100.00 05/17/66 1300	5000 5050	4.91 1.74	9.4 10.1	6.7 F 7.7	8.2 6.4	194 1.30	26	4.6 .38	6.9 .30	1.4 .04	0.0 1.53	93 .35	17 .11	3.9 .0	0.2 .0
F71100.00 06/14/66 1105	5000 5050	4.59 1.04	8.9 9.3	6.4 F 7.8	8.2 8.1	226	--	--	7.5 .33	--	0.0 1.82	111 .08	--	3.0 .0	--
F71100.00 07/19/66 1210	5000 5050	4.46 7.2	9.4 10.7	7.2 F 8.1	8.4 8.1	258	--	--	8.2 .36	--	4.0 .13	120 1.97	--	3.4 .10	--
F71100.00 08/17/66 0745	5000 5050	4.41 3.8	8.3 9.3	7.1 F 7.4	8.3 7.4	274	--	--	9.0 .39	--	2.0 .07	130 2.13	--	4.0 .11	--
F71100.00 09/14/66 0935	5000 5050	4.38 3.1	10.6 11.7	5.9 F 7.8	7.8 7.8	278	4.0	6.3 .52	8.6 .37	0.0 0.04	0.0 2.16	132 .64	31 .10	3.6 .01	--
												74 1	22 .22		

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	DATE	LAQ	G.H. G.	DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN MILLIEQUIVALENT PER LITER				MILLIGRAMS PER LITER					
								CA	MG	NA	K	C03 MC03 SO4 CL	N03 CL	F	B	S102 TDS TH NCH SUM	
MILL CREEK NEAR COVELO (5e)																	
F63050.00	12/08/65	5000		11.4	48 F	8.3 7.5	209	--	6.4 .28	--	1.0 .03	1.06 1.74	--	3.5 .10	1.2 .02	--	
	1510	5050		102												--	
F63050.00	01/13/66	5000		11.8	44 F	8.2 7.4	181	--	5.8 .25	--	0.0 0.0	94 1.54	--	2.3 .06	1.1 .02	--	
	1230	5050		100												--	
F63050.00	02/17/66	5000		12.4	40 F	8.4 7.4	222	--	6.5 .2A	--	3.0 .10	117 1.92	--	2.4 .07	0.9 .01	--	
	0900	5050		100												--	
F63050.00	03/16/66	5000		11.4	49 F	8.1 7.4	170	--	5.4 .23	--	0.0 0.0	91 1.49	--	2.0 .06	0.9 .01	--	
	1320	5050		103												--	
F63050.00	04/12/66	5000		10.2	54 F	8.2 9.9	200	--	6.2 .27	--	0.0 0.0	108 1.77	--	2.0 .06	0.6 .01	--	
	1125	5050		99												--	
F63050.00	05/16/66	5000		9.1	75 F	8.3 8.1	335	37	17 1.85	9.3 1.40	1.4 .04	1.0 0.3	201 3.30	14 .29	0.9 .11	--	
	1350	5050		111												--	
F63050.00	06/13/66	5000		8.2	79 F	8.6 7.6	346	--	--	11 .48	--	8.0 .27	196 3.21	--	4.4 .12	--	--
	1215	5050		104												--	
F63050.00	07/20/66															--	
		5050														--	
F63050.00	08/17/66															--	
		5050														--	
F63050.00	09/14/66															--	
		5050														--	

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLE N	G.H. DO SAT	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE						MILLIGRAMS PER LITER							
						CA	MG	NA	K	C03	HCO3	SO4	CL	N03	F	B	S102	TDS SUM	TH SUM
OUTLET CREEK NEAR LONGVALLE (5b)																			
F61350.00 10/14/65 0730	5000 5050	3.43 1.0	7.6 7A	60 F 7.6	8.1	362	--	--	.65	--	0.0	167	--	27	--	2.0	--	--	151 14
F61350.00 11/11/65	5000 0845	3.91 1.4	9.7 94	55 F 7.7	8.5	369	--	--	.83	--	7.0	151 2.48	--	28 .79	--	3.0	--	--	148 13
F61350.00 12/09/65	5000 0900	4.13 4.5	11.3 101	49 F 7.6	8.2	194	--	--	.38	--	0.0	93 1.53	--	7.4 .21	--	0.5	--	--	78 2
F61350.00 01/12/66	5000 1440	4.68 4.77	11.8 101	45 F 7.3	8.0	112	--	--	.21	--	0.0	55 .90	--	3.2 .09	--	0.0	--	--	44 0
F61350.00 02/16/66	5000 1445	4.11 170	12.6 109	46 F 7.6	8.1	132	--	--	.24	--	0.0	67 1.10	--	2.6 .07	--	0.1	--	--	54 0
F61350.00 03/14/66	5000 1155	5.27 250	11.7 104	48 F 7.2	7.6	97	--	--	.17	--	0.0	46 .75	--	2.1 .06	--	0.0	--	--	40 3
F61350.00 04/12/66	5000 1000	6.58 1270	10.6 96	50 F 7.1	7.6	86	--	--	.2	--	0.0	40 .66	--	1.9 .05	--	0.1	--	--	35 2
F61350.00 05/16/66	5000 1115	3.16 25	9.3 105	68 F 8.0	7.9	212	22	8.3 .68	9.1 .40	1.6 .04	0.0	114 1.87	9.0 1.19	7.4 .21	1.1 .02	0.5 1	9.3	124 124	
F61350.00 06/13/66	5000 1030	3.87 11	9.5 113	74 F 8.1	8.5	245	--	--	.48	--	11 .57	103 .10	--	9.8 .28	--	1.1	--	--	102 13
F61350.00 07/20/66	5000 1035	2.62 2.6	9.2 110	74 F 8.1	8.5	280	--	--	.57	--	13 .17	131 2.15	--	1.6 .45	--	1.3	--	--	118 2
F61350.00 08/17/66	5000 1320	2.47 .7	11.1 148	85 F 8.2	8.4	295	--	--	.65	--	15 .13	135 2.21	--	20 .56	--	1.7	--	--	118 1
F61350.00 09/14/66	5000 1455	3.53 1.0	12.2 146	74 F 8.4	8.1	321	30 1.50	12 .99	16 .70	1.4 .04	0.0	150 2.46	9.0 .19	24 .66	1.0 .02	1.8 1	8.1	183 177	

TABLE D-2 (Continued)
MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE	LAR TIME	G.H. Q.	DO SAT	TEMP FLD	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN CA MG NA K			MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER				
							CO ₃	HCO ₃	CL	NO ₃	CL	NO ₃	F	B	SiO ₂	TDS	TH
REDWOOD CREEK AT ORICK (3b)																	
F55100.00 10/12/65	5000 1345	5.50 18	10.2 102	4.0 F 7.3	8.2 1.92	--	5.9 .26	--	0.0 1.30	.79 --	6.8 .19	--	0.0 --	--	--	--	77 12
F55100.00 11/09/65	5000 1025	6.08 93	10.2 97	5.6 F 7.3	8.2 2.46	--	5.4 .23	--	0.0 1.57	.96 --	5.0 .14	--	0.1 --	--	--	--	112 34
F55100.00 12/07/65	5000 0940	7.19 455	11.2 101	5.2 F 7.3	8.1 1.62	--	4.6 .20	--	0.0 1.03	.63 .57	3.3 .09	--	0.0 --	--	--	--	70 19
F55100.00 01/11/66	5000 1100	9.46 2500	11.5 9A	4.7 F 7.1	7.6 8.8	--	3.1 .13	--	0.0 .57	.35 .08	2.8 .08	--	0.0 --	--	--	--	36 8
F55100.00 02/15/66	5000 1030	8.08 1020	12.3 100	4.4 F 7.2	8.0 1.05	--	3.5 .15	--	0.0 .72	.44 .06	2.1 --	--	0.0 --	--	--	--	43 7
F55100.00 03/14/66	5000 1350	9.27 2250	11.6 104	5.1 F 7.2	7.4 85	--	3.0 .13	--	0.0 .06	.34 .56	2.2 --	--	0.0 --	--	--	--	34 6
F55100.00 04/14/66	5000 1055	8.31 1200	11.1 99	5.1 F 7.2	7.5 1.00	--	3.4 .15	--	0.0 .74	.45 .04	1.4 --	--	0.0 --	--	--	--	42 5
F55100.00 05/18/66	5000 0810	6.56 248	9.9 95	5.7 F 107	7.5 1.57	i.25 .15	1.8 .17	0.7 .02	0.0 .11	.68 1.12	3.0 .33	0.3 .08	--	0.0 --	--	--	70 90
F55100.00 06/14/66	5000 1420	6.28 122	8.5 107	8.2 F 7.3	7.9 1.78	--	4.4 .19	--	0.0 1.23	.75 .11	4.0 --	--	0.0 --	--	--	--	78 17
F55100.00 07/19/66	5000 0840	5.53 47	9.3 94	6.1 F 7.3	8.3 1.83	--	4.8 .21	--	2.0 .07	.76 1.25	5.0 .14	--	0.0 --	--	--	--	81 15
F55100.00 08/16/66	5000 1045	5.31 2.0	8.4 87	6.3 F 7.1	7.6 1.73	--	5.7 .25	--	0.0 1.16	.71 --	6.0 .17	--	0.0 --	--	--	--	73 15
F55100.00 09/13/66	5000 1120	5.31 22	6.2 62	6.0 F 7.0	7.0 1.79	27 1.35	3.2 .26	5.0 1.22	0.7 0.02	.74 1.21	19 1.23	5.0 .23	0.5 .14	--	--	--	80 20

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	DATE	TIME	LAAR	G.H.	DO	TEMP	EC	MINERAL CONSTITUENTS IN			MILLIEQUIVALENT PER LITER			MILLIGRAMS PER LITER								
								LAB FLD	LAB FLD	CA	Mg	Na	K	CO ₃	HCO ₃	SO ₄	CL	NOS	F	A	S102	TDS
SALMON RIVER AT SOMESBAR (2a)																						
F34100.00	5.67	11.0	52	F	7.6	56	9.0	0.9	1.5	0.7	0.0	32	3.0	0.4	0.2	0.2	0.0	0.0	0.3	4.4	26	
05/19/66	5000	2500	102		7.4		.45	.07	.07	.02		.52	.06	.01						4.0	0	
1030	5050					74	11	11	3			88	10	2								

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAB SAMPLER Q.	DO SAT	TEMP	PH FLD	EC FLD	MINERAL CONSTITUENTS IN LAB CA	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER			
							NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃
SCOTT RIVER NEAR FORT JONES (1b)													
F25250.00 10/04/65 1545	5000 5050	1.91 74	11.6 129	61 F 8.2	292	--	5.1 .22	--	1.0 .33	163 2.67	--	3.4 .10	--
F25250.00 11/01/65 1540	5000 5050	1.92 75	12.7 131	55 F 8.1	288	--	5.3 .23	--	6.0 .20	168 2.76	--	3.6 .10	--
F25250.00 11/29/65 1545	5000 5050	2.80 214	12.0 108	44 F 7.5	236	--	4.0 .17	--	3.0 .10	141 2.31	--	2.4 .07	--
F25250.00 01/03/66 1730	5000 5050	3.35 330	11.7 96	38 F 7.8	212	--	3.7 .16	--	2.0 .07	121 1.98	--	2.6 .07	--
F25250.00 02/07/66 1550	5000 5050	3.81 469	11.4 101	45 F 7.6	216	--	4.7 .20	--	0.0 .00	129 2.12	--	1.9 .05	--
F25250.00 03/09/66 0845	5000 5050	4.42 668	11.9 106	44 F 7.4	188	--	3.1 .13	--	1.0 .03	110 1.80	--	0.6 .02	--
F25250.00 04/04/66 1600	5000 5050	6.32 1890	10.5 104	52 F 7.4	127	--	2.2 .10	--	1.0 .03	73 1.20	--	0.6 .02	--
F25250.00 05/02/66 1635	5000 5050	7.19 1030	10.2 108	57 F 7.5	121	12	6.8 .60	2.5 .56	0.7 .11	0.0 .02	71 1.16	0.6 .06	0.7 .01
F25250.00 06/08/66 1215	5000 5050	4.21 584	9.8 111	63 F 7.6	160	--	4.6 .20	--	0.0 .00	98 1.61	--	3.4 .10	--
F25250.00 07/12/66 1005	5000 5050	2.55 118	11.5 132	64 F 7.9	263	--	5.2 .23	--	5.0 .17	153 2.51	--	3.4 .10	--
F25250.00 08/08/66 1130	5000 5050	1.87 50	10.2 126	71.5F 7.8	274	--	5.3 .23	--	0.0 .00	161 2.64	--	4.5 .13	--
F25250.00 09/12/66	5000	1.69 38	11.5 129	62 F 8.0	271	28	5.4 .23	0.7 .02	0.0 .00	159 2.61	7.0 .15	5.8 .16	2.4 .04

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLE	G.H. N	DO SAT	TEMP	PH FLD	EC FLD	MINERAL CONSTITUENTS IN SHASTA RIVER NEAR YREKA (1a.)			MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER TDS TH NCH			
							LAR CA	MG NA	K CO ₃	SO ₄	CL	N03	F	S102	B	
F21050.00 10/05/65 0745	5000 5050	3.31 1.36	9.3 95	56 F 8.2	8.7 8.1	529 498	--	--	38 1.65	--	.63 .37	280 274	--	--	0.5 .62	--
F21050.00 11/02/65 0810	5000 5050	3.48 1.90	10.4 100	51 F 8.1	8.6 8.1	520 520	--	--	36 1.57	--	.11 .37	274 4.49	--	--	0.5 .59	--
F21050.00 11/30/65 0830	5000 5050	3.59 2.64	12.3 104	42 F 8.2	8.5 8.2	520 520	--	--	40 1.74	--	.11 .37	297 4.87	--	--	0.5 .62	--
F21050.00 01/04/66 0825	5000 5050	4.66 6.90	12.5 103	40 F 8.2	8.3 8.2	417 526	--	--	27 1.17	--	.20 .07	225 3.69	--	--	0.3 .45	--
F21050.00 02/08/66 1240	5000 5050	3.64 2.50	12.4 106	42 F 8.3	8.5 8.3	526 526	--	--	40 1.74	--	.12 .40	285 4.67	--	--	0.4 .62	--
F21050.00 03/09/66 1340	5000 5050	3.17 2.15	11.9 110	49 F 8.3	8.7 8.3	466 466	--	--	34 1.48	--	.15 .50	248 4.07	--	--	0.4 .51	--
F21050.00 04/04/66 1155	5000 5050	3.01 9.3	12.1 125	57 F 8.2	8.7 8.2	463 463	--	--	30 1.31	--	.17 .57	249 4.08	--	--	0.4 .45	--
F21050.00 05/02/66 1020	5000 5050	3.01 7.1	10.0 10.9	61 F 8.2	8.5 8.2	612 527	38 3.21	39 1.91	44 2.7	4.1 .10	.13 .6	347 5.69	11 .23	25 .71	0.4 .01	--
F21050.00 06/08/66 0720	5000 5050	2.98 6.6	9.3 100	61 F 8.3	8.7 8.3	601 527	--	--	48 2.09	--	.22 .73	326 5.35	--	--	0.5 .71	--
F21050.00 07/12/66 0605	5000 5050	2.51 1.2	9.0 92	66 F 8.1	8.7 8.1	719 726	--	--	56 2.44	--	.24 .80	394 6.46	--	--	0.6 .36	--
F21050.00 08/08/66 1015	5000 5050	2.45 9.0	9.4 115	72 F 8.1	8.6 8.1	726 527	--	--	59 2.57	--	.16 .53	398 6.53	--	--	0.7 .36	--
F21050.00 09/12/66 0810	5000 5050	2.75 3.2	9.5 95	54.5F 8.4	8.6 8.4	755 744	44 2.95	48 2.74	5.0 .13	20 .67	.20 .689	420 .23	11 1.07	38 .78	0.9 .01	--
															0.7 0.49	512 485
															308 0	

MINERAL ANALYSES OF SURFACE WATER
 TABLE D-2 (Continued)

STATION NUMBER	DATE	TIME	LAIR	G.H.	DO	TEMP	PH	EC	MINERAL CONSTITUENTS IN					MILLIEQUIVALENT PER LITER					
									LAB FLD	LAB FLD	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	PERCENT REACTANCE VALUE
SMITH RIVER NEAR CRESCENT CITY (3a)																			
F01300.00	10/12/65	1025	5000	260	10.3	59	F	8.4	191	--	--	3.1	--	8.0	93	--	2.5	--	0.0
					101			8.1			.13		.27	1.53		.07			--
F01300.00	11/09/65	0800	5000	1020	11.0	53	F	8.3	153	--	--	2.5	--	1.0	83	--	2.0	--	0.1
					101			7.6			.11		.03	1.36		.06			--
F01300.00	12/06/65	1645	5000	26A0.	9.17	12.2	F	8.1	113	--	--	3.4	--	0.0	65	--	1.8	--	0.0
					10A			7.4			.15		.07	1.07		.05			--
F01300.00	01/11/66	0830	5000	9380	13.81	12.9	F	8.2	91	--	--	1.8	--	0.0	50	--	1.4	--	0.0
					10A			7.7			.0A		.82		.04				--
F01300.00	02/15/66	0830	5000	3570	10.08	12.4	F	8.1	99	--	--	2.1	--	0.0	55	--	1.1	--	0.0
					9A			7.3			.09		.90		.03				--
F01300.00	03/14/66	1510	5000	11100	14.65	12.4	4A	8.2	89	--	--	1.8	--	0.0	49	--	1.1	--	0.0
					107			7.3			.08		.80		.03				--
F01300.00	04/14/66	1305	5000	6810	12.44	11.9	47	8.2	97	--	--	1.8	--	0.0	55	--	1.0	--	0.1
					101			7.6			.0A		.90		.03				--
F01300.00	05/18/66	1040	5000	1370	8.94	10.6	56	F	8.0	103	7.6	7.5	1.8	0.7	0.0	59	4.0	0.5	--
					101			7.8			.38		.62	0.08	.02	.97	.08	.03	.01
F01300.00	06/14/66	1630	5000	670	7.75	8.9	56	F	8.2	125	--	--	2.3	--	0.0	71	--	1.6	--
					85			7.8			.35		.56	.7	2	.89	.7	.3	1
F01300.00	07/19/66	0645	5000	353	6.91	9.5	63	F	8.2	153	--	--	1.8	--	0.0	86	--	1.9	--
					9A			7.7			.0A		.0A		.05		.05		--
F01300.00	08/16/66	0740	5000	24A	6.39	9.0	65	F	8.2	176	--	--	2.9	--	0.0	98	--	2.2	--
					95			8.0			.13		.13		.06				--
F01300.00	09/12/66	0000	5000	243	6.37	10.4	59	F	8.1	178	13	14	2.8	0.9	0.0	100	100	2.2	--
					102			A.0			.65		.15		.12		.12		.06

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	LAR SAMPLER G.H. Q.	DO SAT	TEMP	PH LAR FLD	EC LAB FLD	MINERAL CONSTITUENTS IN CA MG NA K			MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER						
						CO ₂	HCO ₃	NO ₃	CL	504	503	F	A	S102				
TRINITY RIVER NEAR BURNT RANCH (4b)																		
F41376.00 10/11/65 0930	5000 5050	300	9.6 9A	59 F 7.A	8.2 7.8	164	--	--	4.6 .20	0.0 1.41	86 .15	--	5.3 0.3	--	0.0 --	--	--	74 4
F41376.00 11/08/65 0955	5000 5050	675	10.8 101	52 F 7.6	8.2 7.6	154	--	--	4.0 .17	0.0 1.33	81 .14	--	4.8 .02	0.0 --	--	--	--	71 5
F41376.00 12/06/65 0920	5000 5050	800	11.9 104	47 F 7.3	8.2 7.3	116	--	--	3.6 .16	0.0 1.02	62 .07	--	2.4 0.2	--	0.0 --	--	--	53 2
F41376.00 01/10/66 1000	5000 5050	3470	11.4 94	43 F 7.5	8.2 7.5	151	--	--	3.2 .14	0.0 1.34	82 .05	--	1.9 .01	0.5 --	0.0 0.0	--	--	70 3
F41376.00 02/14/66 1040	5000 5050	1940	13.4 106	40 F 7.4	8.3 7.5	177	--	--	3.7 .16	1.0 .03	95 1.56	--	2.2 .06	0.2 --	0.0 0.0	--	--	84 5
F41376.00 03/25/66 1005	5000 5050	2750	11.8 105	48 F 7.5	8.2 7.5	152	--	--	3.5 .15	0.0 1.39	85 1.56	--	1.7 .05	0.4 .01	--	--	--	72 3
F41376.00 04/15/66 1300	5000 5050	2280	10.7 107	50 F 7.4	8.2 7.4	115	--	--	2.5 .11	0.0 1.07	65 .03	--	0.9 .03	0.1 --	0.0 0.0	--	--	55 2
F41376.00 05/19/66 1320	5000 5050	1920	9.8 103	62 F 7.7	7.6 7.7	101	10	4.6 .50	3.5 .15	0.0 .03	53 .67	4.0 .06	2.6 .07	1.1 .02	0.0 0.0	9.7 62	44 1	
F41376.00 06/15/66 1240	5000 5050	1000	9.0 107	73 F 7.8	8.0 7.8	100	--	--	3.3 .14	0.0 1.4	53 .87	--	2.2 .06	--	0.0 0.0	--	--	44 1
F41376.00 07/18/66 1015	5000 5050	431	9.3 105	48 F 7.8	8.3 7.8	146	--	--	3.5 .15	0.0 1.07	74 1.21	--	4.0 .11	0.7 .01	0.0 0.0	--	--	67 3
F41376.00 09/12/66 1005	5000 5050	239	9.6 102	43 F 8.1	7.7 8.1	169	17	7.8 .85	5.0 .64	0.7 .22	88 .02	5.0 1.44	1.3 .10	--	0.0 .16	11 1	92 97	

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	DATE	G.H.	DO SAMPLER	TEMP °C	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN			MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE			MILLIGRAMS PER LITER								
							CA	MG	NA	K	CO ₃	HC ₀₃	CL	NO ₃	F	B	SIO ₂	TDS	TH SUM	NCH	
TRINITY RIVER NEAR HOOPA (L.)																					
F41090.00	10/11/65	5000	530	8.3	65 F	8.4	249	--	--	4.9	--	6.0	127	--	4.9	0.3	--	0.0	--	--	122
	1525	5050				7.0				.21		.20	2.08		.14						A
F41090.00	11/08/65	5000	922	10.3	55 F	8.4	227	--	--	4.7	--	2.0	115	--	5.2	1.8	--	0.0	--	--	110
	1135	5050				7.5				.20		.07	1.89		.15	.03					12
F41090.00	12/06/65	5000	3520	11.8	48 F	8.2	178	--	--	4.5	--	0.0	92	--	2.7	0.3	--	0.0	--	--	84
	1035	5050				7.2				.20			1.51		.08						9
F41090.00	01/10/66	5000	17400	11.9	44 F	8.1	169	--	--	3.1	--	0.0	88	--	1.4	0.6	--	0.0	--	--	81
	1145	5050				7.5				.13			1.44		.04	.01					9
F41090.00	02/14/66	5000	5760	13.0	41 F	8.3	190	--	--	3.5	--	2.0	99	--	1.4	0.3	--	0.0	--	--	92
	1220	5050				7.5				.15		.07	1.62		.04						A
F41090.00	03/25/66	5000	8540	11.8	48 F	8.2	162	--	--	3.1	--	0.0	91	--	1.6	0.4	--	0.1	--	--	85
	1145	5050				7.4				.13			1.49		.05	.01					11
F41090.00	04/15/66	5000	7720	11.1	51 F	8.1	133	--	--	2.5	--	0.0	74	--	0.6	0.2	--	0.0	--	--	65
	1015	5050				7.6				.11			1.21		.02						5
F41090.00	05/19/66	5000	3680	9.5	60 F	8.2	135	15	6.4	2.7	0.6	0.0	73	10	1.8	0.6	0.1	0.0	12	88	
	0830	5050				9.6				.75		.12	.02		.21	.05	.01				85
F41090.00	06/15/66	5000	1880	8.7	70 F	8.0	159	--	--	4.1	--	0.0	85	--	2.3	--	0.0	--	--	--	74
	0925	5050				9.8				.16			1.39		.06						5
F41090.00	07/18/66	5000	762	8.6	69 F	8.4	210	--	--	3.4	--	2.0	110	--	3.2	1.0	--	0.0	--	--	102
	1200	5050				7.3				.15		.07	1.80		.09	.02					9
F41090.00	08/15/66	5000	426	8.6	74 F	8.0	230	--	--	4.6	--	0.0	123	--	4.0	0.6	--	0.0	--	--	111
	1030	5050				7.8				.20			2.02		.11	.01					10
F41090.00	09/12/66	5000	370	9.5	66 F	7.7	239	29	9.9	4.8	0.9	0.0	126	15	4.6	0.7	--	0.0	13	130	
						7.6				1.45		.81	.02		.31	.01					10

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER	LA DATE	G.H. SAMPLER	DO SAT	TEMP	PH	EC	MINERAL CONSTITUENTS IN				MILLIEQUIVALENT PER LITER				MILLIGRAMS PER LITER						
							LAB FLD	CA FLD	MG	NA	K	C03	HC03	S04	CL	N03	F	B	S102	TOS	TH NCH
TRINITY RIVER AT LEWISTON (4a)																					
F41640.00	10/11/65	5000	212	10.5	48 F	7.7	92	--	--	2.4	--	0.0	.84	--	1.1	0.7	--	0.0	--	--	42
	0800	5050				7.3				.10					.01						0
F41640.00	11/08/65	5000	245	10.9	47 F	8.0	90	--	--	1.9	--	0.0	.82	--	0.9	1.9	--	0.0	--	--	49
	0825	5050				7.2				.08					.03						8
F41640.00	12/06/65	5000	209	11.5	45 F	8.1	91	--	--	3.4	--	0.0	.84	--	0.3	0.6	--	0.0	--	--	43
	0800	5050				7.2				.15					.01						1
F41640.00	01/10/66	5000	168	11.9	42 F	8.0	94	--	--	2.3	--	0.0	.79	--	1.4	0.5	--	0.0	--	--	*2
	0830	5050				7.2				.10					.01						3
F41640.00	02/14/66	5000	170	12.1	43 F	8.1	101	--	--	3.2	--	0.0	.93	--	1.0	0.6	--	0.0	--	--	46
	0920	5050				7.2				.14					.01						0
F41640.00	03/25/66	5000	159	12.5	46 F	8.1	99	--	--	3.1	--	0.0	.92	--	1.6	0.6	--	0.0	--	--	45
	0850	5050				7.3				.13					.01						0
F41640.00	04/15/66	5000	166	11.4	52 F	8.0	98	--	--	3.1	--	0.0	.89	--	0.8	0.2	--	0.0	--	--	45
	1500	5050				7.8				.13					.02						1
F41640.00	05/19/66	5000	631	10.6	53 F	7.6	94	7.2	6.0	2.9	0.7	0.0	.85	3.0	1.4	1.0	--	0.0	12	60	42
	1450	5050				7.6				.36					.02						0
F41640.00	06/15/66	5000	166	10.8	56 F	8.0	96	--	--	3.1	--	0.0	.85	--	1.9	--		0.0	--	--	46
	1400	5050				7.7				.13					.05						4
F41640.00	07/18/66	5000	161	11.5	58 F	8.0	94	--	--	2.2	--	0.0	.87	--	1.2	0.8	--	0.0	--	--	43
	0845	5050				7.4				.10					.03						0
F41640.00	08/15/66	5000	159	11.1	49.0F	7.8	95	--	--	2.6	--	0.0	.87	--	1.5	0.8	--	0.0	--	--	44
	0830	5050				7.3				.11					.04						1
F41640.00	09/12/66	5000	161	11.3	49 F	7.5	94	5.1	7.4	2.6	0.5	0.0	.52	1.0	1.5	--	0.0	16	64	43	
	0830	5050													.01						1

TABLE 0-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. SAMPLER Q.	DO SAT	TEMP FLD	PH LAR FLD	EC LAR FLD	MINERAL CONSTITUENTS IN CA NA K CO ₃ HCO ₃	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER		
							PERCENT REACTANCE VALUE	CL SO ₄	NO ₃	F TDS SUM	S102	TH NCH
VAN DUZEN RIVER NEAR BRIDGEVILLE (5a)												
F65300.00 10/13/65 0815	5000 5050	2.92 10	8.9 8.6	57 F 7.8	324	--	9.7	--	0.0	158 2.59	--	0.1
F65300.00 11/10/65 0925	5000 5050	3.53 81	10.8 9.9	52 F 7.9	308	--	6.8	--	5.0	140 .17	--	0.2
F65300.00 12/07/65 1600	5000 5050	4.70 670	11.7 102	48 F 7.5	155	--	5.0	--	0.0	75 1.23	--	0.0
F65300.00 01/12/66 0905	5000 5050	5.28 1220	12.8 100	40 F 7.6	139	--	3.4	--	0.0	72 1.18	--	0.0
F65300.00 02/16/66 1010	5000 5050	4.79 742	14.0 106	38 F 7.4	149	--	3.9	--	0.0	75 1.23	--	0.0
F65300.00 03/15/66 1640	5000 5050	6.41 2720	11.7 100	47 F 7.4	119	--	2.9	--	0.0	62 1.02	--	0.0
F65300.00 04/13/66 1200	5000 5050	5.49 1460	11.5 100	48 F 7.6	126	--	3.2	--	0.0	66 1.08	--	0.0
F65300.00 05/17/66 1000	5000 5050	4.03 182	10.0 96	56 F 7.6	176	1.25	4.7	1.0	0.0	94 .03	1.2	0.9
F65300.00 06/14/66 0755	5000 5050	3.61 68	9.4 66	58 F 7.8	232	--	1.1	--	2.0	122 .07	--	1.7
F65300.00 07/19/66 1500	5000 5050	3.35 26	8.7 104	76.5F 8.3	279	--	6.6	--	4.0	139 .13	2.28	2.4
F65300.00 08/16/66 1345	5000 5050	6.23 13	9.2 109	75 F 8.4	320	--	8.5	--	3.0	157 .10	2.57	3.1
F65300.00 09/13/66	5000 5050	3.22 10	10.0 111	69 F 8.2	343	4.7	9.8	1.7	0.0	169 2.35	39 .81	4.5
												0.8 .42

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

STATION NUMBER DATE TIME	G.H. LAH SAMPLER	DO SAT	TEMP	PH LAB FLD	EC LAH FLD	MINERAL CONSTITUENTS IN WILLIAMS CREEK NEAR COVELO (5°F)				MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM NCH					
						CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NOS	F	B	S102	TDS SUM	TH NCH
WILLIAMS CREEK NEAR COVELO (5°F)																			
F63105.00 10/14/65 0950	.2 5000 5050	9.7 102	60 F	8.4 8.0	371	--	--	5.0 .22	--	9.0 .30	208 3.41	--	1.9 .05	0.2	--	0.0	--	--	196 11
F63105.00 11/11/65 1020	.5 5000 5050	10.9 111	57 F	8.6 8.1	358	--	--	4.4 .21	--	8.0 .27	186 3.05	--	1.8 .05	1.5 .02	--	0.1	--	--	189 23
F63105.00 12/08/65 1330	2.45 103	11.6 103	47 F	8.2 7.5	140	--	--	2.4 .12	--	0.0 .11	72 .92	--	1.0 .02	0.2	--	0.0	--	--	65 6
F63105.00 01/13/66 1045	3.44 101	11.9 7.3	43 F	8.1 7.3	110	--	--	2.6 .11	--	0.0 .11	56 .92	--	0.6 .02	0.4 .01	--	0.0	--	--	49 3
F63105.00 02/17/66 0935	3.06 105	13.1 7.4	39 F	8.2 7.4	130	--	--	3.0 .13	--	0.0 .13	65 1.07	--	0.4 .01	0.2	--	0.0	--	--	59 6
F63105.00 03/16/66 1435	3.65 103	11.8 7.3	45 F	7.9 7.3	98	--	--	2.6 .11	--	0.0 .11	49 .80	--	0.7 .02	0.7 .01	--	0.0	--	--	43 3
F63105.00 04/12/66 1345	3.39 100	10.8 7.4	50 F	8.1 7.4	99	--	--	2.2 .10	--	0.0 .10	50 .82	--	0.3 .01	0.2	--	0.0	--	--	45 4
F63105.00 05/16/66 1330	2.62 44	8.9 100	66 F	7.9 7.4	131	15	6.0	2.4 .75	0.8 .49	0.0 .10	71 1	8.0 .17	0.6 .02	0.7 .01	--	0.0	7.0	72 75	
F63105.00 06/13/66 1255	2.42 20	8.2 105	79 F	8.4 8.1	182	--	--	4.3 .19	--	1.0 .03	99 1.62	--	0.5 .01	--	--	0.0	--	--	89 7
F63105.00 07/20/66 0820	2.24 1.4	9.3 106	67 F	8.6 8.3	260	--	--	3.5 .15	--	6.0 .20	141 2.31	--	0.6 .02	0.1	--	0.0	--	--	134 9
F63105.00 08/17/66 1540	2.18 .6	11.0 144	41.0 F	8.6 8.4	290	--	--	4.4 .19	--	9.0 .30	155 2.54	--	1.0 .03	0.9 .01	--	0.0	--	--	152 10
F63105.00 09/14/66 1715	2.16 .4	9.0 100	65 F	8.2 8.0	319	33	1.7	4.5 1.90	0.3 1.40	0.0 .20	188 .03	20 .42	1.0 .03	0.8 .01	--	0.0	9.7	176 184	

TABLE D-3
TRACE ELEMENT ANALYSES OF SURFACE WATER

North Coastal Area

STATION	STATION NUMBER	DATE	CONSTITUENTS IN MICROGRAMS PER LITER												(V)	(Zn)		
			(Al)	(B ₀)	(B ₁)	(Cd)	(Co)	(Cr)	(Cu)	(Fe ₀)	(Ge)	(Mn)	(Mo)	(Ni)	(Pb)	(Ti)		
ESL RIVER NEAR DOS RIOS (5a)	F61329-50	5-16-66 9-14-66	<1.4 1.7	<0.57 <0.57	<0.29 <0.29	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<5.7 <5.7	<0.29 <0.29	<1.4 <1.4	1.0 2.4	1.2 1.3	<1.4 <1.4	<0.57 <0.57	0.5 0.5
ESL RIVER, MIDDLE FORK AT DOS RIOS (5e)	F63010-00	5-16-66 9-14-66	1.9 1.5	<0.57 <0.57	<0.29 <0.29	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	22 6.6	<0.29 <0.29	<1.4 <1.4	2.9 3.8	1.7 2.0	<1.4 <1.4	<0.29 <0.27	1.4 0.6
KEL RIVER AT SCOTIA (6)	F61100-00	4-13-66 6-14-66	280 11 12	<1.3 <0.57 <0.57	<0.67 <0.29 <0.29	<3.3 <1.4 <1.4	<3.3 <1.4 <1.4	<3.3 <1.4 <1.4	>100 <1.4	<100 <1.4	<13 6.6	<0.67 <0.29	<3.3 23	<0.67 1.1	3.6 1.6	<3.3 1.1	6.7 1.4	<0.7 0.4
KLANATH RIVER BELOW IRON GATE DAM (1f)	F31600-00	5-02-66 9-12-66	131 34	<0.57 <0.57	<0.29 <0.29	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	37 39	<0.29 <0.29	<1.4 <1.4	<0.29 0.29	1.8 3.1	<1.4 <1.4	2.6 0.6	1.2 1.0
KLANATH RIVER NEAR KLANATH (3)	F31100-00	4-14-66 5-18-66	47 27	<1.3 <0.57	<0.67 <0.29	<3.3 <1.4	<3.3 <1.4	<3.3 <1.4	<1.4 <1.4	<1.4 <1.4	35 31	<0.67 <0.29	<3.3 13	<0.67 0.29	3.9 3.4	<3.3 <1.4	1.8 2.2	<5.7 1.1
KLANATH RIVER NEAR KLANATH (3)	F3113-66	9-13-66	12	<0.57	<0.29	<1.4	<1.4	<1.4	<1.4	<1.4	18	<0.29 <0.29	<1.4 <1.4	<0.29 18	3.1	<1.4	<0.57	2.4
KLANATH RIVER AT OREANS (2e)	F31220-01	5-19-66	25	<0.57	<0.29	<1.4	<1.4	2.3	<1.4	21	<5.7	<0.29	2.0	<0.29	5.1	<1.4	0.8	1.0
KLANATH RIVER NEAR SEIAD VALLEY (2b)	F31430-00	5-02-66 9-12-66	27 24	<0.57 <0.57	<0.29 <0.29	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	8.3 33	<5.7 <5.7	<0.29 <0.29	<1.4 1.8	3.1 26	<1.4	<0.57 0.57	6.9 6.0
MUD RIVER NEAR ARADA (6a)	F51120-00	5-18-66 9-12-66	10 15	<0.57 <0.57	<0.29 <0.29	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	8.3 5.1	<5.7 <5.7	<0.29 <0.29	0.9 1.5	2.1 1.6	<1.4 <1.4	<0.57 <0.57	0.3 0.5
TRINITY RIVER NEAR HOOPA (4)	Fu1090-00	5-19-66 9-12-66	29 14	<0.57 <0.57	<0.29 <0.29	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	<1.4 <1.4	21 20	<5.7 <5.7	<0.29 <0.29	9.1 1.3	2.9 3.1	<1.4 <1.4	<5.7 0.5	0.7 0.5

TABLE D-4 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

An explanation of column headings follows:

Coliform - The two values represent analyses of duplicate samples collected at the same time. The determinations were made by the California Department of Public Health.

Turbidity - The values are shown in ppm when they represent parts per million of silica and in Jackson Candle Units when reported as "Units".

MBAS - Methylene Blue Active Substances (ABS and LAS) are a measure of the detergents.

TABLE D-4
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
North Coastal Area

Station	Station Number	Date	Caliform MPN/ml	Turbidity		MBAS ¹ in mg/l	As in mg/l	PO ₄ in mg/l	Other Constituents
				ppm	units				
Bear River near Capetown (7b)	F75100.00	10-13-65 11- 9-65 12- 7-65 1-11-66 2-15-66 3-15-66 4-13-66 5-17-66 6-14-66 7-19-66 8-17-66 9-14-66			0 0 150 1300 270 1800 250 5 5 15 3 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.05 0.01			
Black Butte River near Covelo (5h)	F63200.00	10-14-65 11-11-65 12- 8-65 1-13-66 2-17-66 3-16-66 4-12-66 5-16-66 6-13-66 7-20-66 8-17-66 9-14-66			1 0 25 375 75 325 240 5 1 1 1	0 0 70 600 110 500 420 9 3 2 9	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.02 0.04 0.02 0.14 0.09 0.14 0.09 0.00 0.14 0.08 0.03	
Eel River above Outlet Creek near Dos Rios (5d)	F61329.50	10-14-65 11-11-65 12- 9-65 1-12-66 2-16-66 3-16-66 4-12-66 5-16-66 6-13-66 7-20-66 8-17-66 9-14-66			1 4 2 105 40 70 105 1 1 1 1	0 10 5 -190 65 115 230 1 2 15 8 1	0.0 0.05 0.00 0.06 0.14 0.11 0.14 0.04 0.13 0.05 0.02		
Eel River at Scotia (6)	F61100.00	10-12-65 11- 9-65 12- 7-65 1-11-66 2-15-66 3-15-66 4-13-66 5-17-66 6-14-66 7-19-66 8-16-66 9-13-66	6.2 6.2 23 2.3 1.3 62 62 375 5 23 62 0.23 230 6.2	13 2.3 23 15 6.2 62 62 650 25 1 6 1 10 3 9 23	1 5 15 315 75 275 375 650 5 1 1 1 1 1 1 1	0 13 60 650 110 450 650 25 6 10 9 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.30 0.11 0.10 0.06 0.06 0.27 0.13	Li 0.01; Sr 0.18 Li 0.0 ; Sr 0.3 Li 0.01; Sr 0.3 Li 0.01; Sr 0.4 Li 0.01; Sr 0.6
Eel River at South Fork (5)	F61154.50	10-13-65 11-10-65 12- 8-65 1-12-66 2-16-66 3-15-66 4-13-66 5-17-66 6-13-66 7-19-66 8-17-66 9-14-66			1 5 50 360 50 240 240 30 1 1 1 1	0 13 150 550 85 450 550 30 4 15 5 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.01	
Klamath River above Hamburg Reservoir Site (1c)	F31470.00	10- 5-65 11- 2-65 11-30-65 1- 4-66 2- 8-66 3- 9-66 4- 4-66 5- 2-66 6- 8-66 7-12-66 9-12-66			3 4 5 65 5 50 20 5 5 2 1	0.53 0.45 0.41 0.48 0.49 0.38 0.33 0.34 0.33 0.63 0.61			

TABLE D-4 (Continued)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
North Coastal Area

Station	Station Number	Date	Coliform MPN/ml	Turbidity		MBAS in mg/l	As in mg/l	PO ₄ in mg/l	Other Constituents
				ppm	units				
Klamath River at Orleans (2c)	F31220.01	10-11-65			5				
		11- 8-65			25				
		12- 6-65			5				
		1-10-66			75				
		2-14-66			15				
		3-25-66			40				
		4-15-66			50				
		5-19-66			10		0.0	0.00	0.10
		6-15-66			5				
		7-18-66			5				
		8-15-66			4				
Klamath River below Iron Gate Dam (1f)	F31600.00	10- 5-65	6.2		4				0.48
		11- 2-65	50	50	4				0.45
		11-30-65	23	23	5				0.39
		1- 4-66	230	620	15				0.52
		2- 8-66	6.2	62	5				0.57
		3- 9-66	62	2400	5				0.61
		4- 4-66	500	24000	15				0.36
		5- 2-66	0.13	0.62	3		0.0	0.01	0.46
		6- 8-66	21	62	5				0.57
		7-12-66	62	130	5				0.67
		8- 8-66	0.62	2.3	1				0.75
		9-12-66		62	2	11	0.0	0.01	0.79
Klamath River near Klamath (3)	F31100.00	10-12-65		23	5				
		11- 9-65	62	620	15				
		12- 7-65	6.2	23	25				
		1-11-66	23	23	210				
		2-15-66			50				
		3-14-66	23	62	180				
		4-11-66	23	230	105				
		5-18-66			35		0.0	0.00	0.33
		6-11-66	0.06	2.3	10				Li 0.00; Sr 0.00
		7-18-66	0.23	0.62	5				Li 0.0 ; Sr 0.1
		8-16-66	23	23	4				Li 0.01; Sr 0.1
		9-13-66	0.23	2.3	2		0.0	0.00	0.36
					0				Li 0.01; Sr 0.2
Klamath River near Seiad Valley (2b)	F31430.00	10- 5-65			5				0.44
		11- 2-65			4				0.45
		11-30-65			5				0.31
		1- 4-66			15				0.34
		2- 8-66			5				0.39
		3- 9-66			20				0.36
		4- 4-66			15				0.19
		5- 2-66			2		0.0	0.00	0.16
		6- 8-66			3				0.23
		7-12-66			2				0.50
		9-12-66			2	5	0.0	0.01	0.66
Mad River near Arcata (6a)	F51100.00	10-11-65			3	0			
		11- 8-65			1	5			
		12- 6-65			90	260			
		1-10-66			315	750			
		2-14-66			100	170			
		3-14-66			275	450			
		4-14-66	2400	2400	120	180			
		5-18-66			3	7	0.0	0.00	0.04
		6-15-66	0.62	0.62	4	8			
		7-18-66	0.62	2.3	50	74			
		8-15-66	0.2	0.2	60	90			
		9-12-66	0.6	6.2	80	140	0.0	0.00	0.02
Mattole River near Petrolia (7a)	F71100.00	10-13-65			1				
		11- 9-65			5				
		12- 7-65			10				
		1-11-66			210	450			
		2-15-66			60				
		3-15-66			360				
		4-13-66			75				
		5-17-66			1		0.0	0.00	0.09
		6-14-66			1				
		7-19-66			1				
		8-17-66			1				
		9-14-66			1				

TABLE D-4 (Continued)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
North Coastal Area

Station	Station Number	Date	Coliform MPN/ml	Turbidity		MBAS in mg/l	As in mg/l	PO ₄ in mg/l	Other Constituents
				ppm	units				
Middle Fork Eel River at Dos Rios (5c)	F63010.00	10-14-65			1	0			0.03
		11-11-65			0	0			0.07
		12- 8-65		50	160				0.01
		1-13-66		210	450				0.10
		2-17-66		65	100				0.09
		3-16-66		350	550				0.14
		4-12-66		375	650				0.12
		5-16-66		35	65	0.0	0.00		0.06
		6-13-66		1	0				
		7-20-66		1	10				0.04
		8-17-66		1	10				0.06
		9-14-66		1	1	0.0	0.00		0.04
Middle Fork Eel River at Eel River Ranger Station (5g)	F63120.00	10-14-65			0	0			0.03
		11-11-65			0	0			0.05
		12- 8-65		50	130				0.02
		1-13-66		75	270				0.03
		2-17-66		5	15				0.08
		3-16-66		240	400				0.11
		4-12-66		180	280				0.07
		5-16-66		35	40	0.0	0.00		0.01
		6-13-66		1	1				
		7-20-66		1	8				0.12
		8-17-66		1	7				0.08
		9-14-66		1	0	0.0	0.00		0.03
Mill Creek near Covelo (5e)	F63050.00	12- 8-65			4	10			0.03
		1-13-66			15	60			0.11
		2-17-66			5	5			0.12
		3-16-66			105	170			0.17
		4-12-66			40	65			0.14
		5-16-66			1	0	0.0	0.00	0.05
		6-13-66			1	2			
Outlet Creek near Longvale (5b)	F61350.00	10-14-65			1				
		11-11-65			1				
		12- 9-65			1				
		1-12-66			5				
		2-16-66			4				
		3-16-66			20				
		4-12-66			75	155			
		5-16-66			1	2	0.0	0.00	0.02
		6-13-66			1	1			
		7-20-66			1	4			0.16
		8-17-66			1	6			
		9-14-66			1	0	0.0	0.00	0.02
Redwood Creek near Orick (3b)	F55100.00	10-12-65			2				
		11- 9-65			10				
		12- 7-65			70				
		1-11-66			375				
		2-15-66			20				
		3-14-66			325				
		4-14-66			150				
		5-18-66			5		0.0	0.00	0.00
		6-14-66			275				
		7-19-66			1				
		8-16-66			105		0.0	0.00	0.03
		9-13-66			1				
Salmon River at Somesbar (2a)	F34100.00	5-19-66			5		0.0	0.00	0.00
Scott River near Fort Jones (1b)	F25250.00	10- 4-65			1				
		11- 1-65			0				
		11-29-65			2				
		1- 3-66			4				
		2- 7-66			2				
		3- 9-66			10				
		4- 4-66			25				
		5- 2-66	62	62	10		0.0	0.00	0.05
		6- 8-66	6.2	23	3				
		7-12-66	6.2	9.2	1				
		8- 8-66	0.13	1.3	1				
		9-12-66	1.3	6.2	1	0.0	0.00		0.02

TABLE D-4 (Continued)
 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
 North Coastal Area

Station	Station Number	Date	Coliform MPN/ml	Turbidity		MBAS in mg/l	As in mg/l	PO ₄ in mg/l	Other Constituents
				ppm	units				
Shasta River near Yreka (1a)	F21050.00	10-5-65			3				
		11-2-65			2				
		11-30-65			4				
		1-4-66			105				
		2-8-66			3				
		3-9-66			3				
		4-4-66			2				
		5-2-66	0.23	0.23	1		0.0	0.02	0.72
		6-8-66	6.2	50	1				
		7-12-66	6.2	6.2	1				
Smith River near Crescent City (3a)	F01300.00	8-8-66	0.13	230	1				
		9-12-66	13	62	2	10	0.0	0.01	0.52
		10-12-65			1				
		11-9-65			5				
		12-6-65			15				
		1-11-66			75				
		2-15-66			35				
		3-14-66			120				
		4-14-66			60				
		5-18-66			5				
South Fork Eel River near Miranda (7)	F64100.00	6-14-66	0.23	13	1		0.0	0.00	0.01
		7-19-66	23	23	1				
		8-16-66	230	230	1				
		9-13-66	6.2	23	1		0.0	0.00	0.08
		10-13-65			1	0			0.05
		11-10-65			60	65			0.09
		12-8-65			5	15			0.03
		1-12-66			270	525			0.09
		2-16-66			60	95			0.22
		3-16-66			240	400			0.22
Trinity River at Lewiston (4a)	F41640.00	4-13-66			180	240			0.16
		5-17-66			1	0	0.0	0.00	0.09
		6-13-66	0	50	1	4			
		7-19-66	0.23	2.3	1	15			0.00
		8-17-66	620	24000	1	6			0.08
		9-14-66		6.2	1	0	0.0	0.00	0.04
		10-11-65			5				0.02
		11-8-65			4				0.07
		12-6-65			5				0.02
		1-10-66			2				0.02
Trinity River near Burnt Ranch (4b)	F41376.00	2-14-66			2				0.08
		3-25-66			1				0.16
		4-15-66			1				0.04
		5-19-66			1		0.0	0.00	0.00
		6-15-66			1				0.00
		7-18-66			1				0.08
		8-15-66			1				0.10
		9-12-66			1		0.0	0.00	0.07
		10-11-65			2				0.10
		11-8-65			3				0.04
Trinity River near Hoopa (4)	F41090.00	12-6-65			5				0.01
		1-10-66			5				0.02
		2-14-66			4				0.04
		3-25-66			2				0.12
		4-15-66			5				0.03
		5-19-66			4		0.0	0.00	0.00
		6-15-66			1				0.04
		7-18-66			2				0.04
		8-15-66	620	620	1	0	0.0	0.00	0.02
		9-12-66	0.2	6.2	1				

TABLE D-4 (Continued)
 MISCELLANEOUS CONSTITUENTS IN SURFACE WATER
 North Coastal Area

Station	Station Number	Date	Coliform MPN/ml	Turbidity		MBAS in mg/l	As in mg/l	PO ₄ in mg/l	Other Constituents
				ppm	units				
Williams Creek near Covelo (5f)	F63105.00	10-14-65			1	0		0.02	
		11-11-65			0	0		0.05	
		12- 8-65			4	15		0.03	
		1-13-66			5	35		0.06	
		2-17-66			4	6		0.10	
		3-16-66			50	85		0.11	
		4-12-66			30	45		0.06	
		5-16-66			2	8	0.0	0.00	
		6-13-66			1	1			
		7-20-66			1	0		0.09	
		8-17-66			1	2		0.09	
		9-1 ^b -66			1	0	0.0	0.06	
Van Duzen River near Bridgeville (5a)	F65300.00	10-13-65			4				
		11-10-65			5				
		12- 7-65			80				
		1-12-66			360	750			
		2-16-66			75				
		3-15-66			450				
		4-13-66			180				
		5-17-66			3		0.0	0.00	0.01
		6-14-66	6.2	130	1				
		7-19-66	6.2	6.2	1				
		8-16-66	62	230	1				
		9-13-66	0.6	6.2	1		0.0	0.00	0.02

APPENDIX E
GROUND WATER QUALITY

INTRODUCTION

This appendix presents ground water quality data collected during the period from October 1, 1965, through September 30, 1966. The data were collected from a number of major ground water sources in the North Coastal Area in cooperation with local agencies. During the 1966 water year, 80 wells were sampled in 11 ground water basins.

At the time of field sampling, pH and temperature measurements are normally made. Comments on local conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Waste Water", 12th Edition.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements".

TABLE E-1 MINERAL ANALYSES OF GROUND WATER

An explanation of column headings follows:

Lab - 5050 Department of Water Resources

EC - The specific conductance in micromhos at 25° centigrade.

TDS - Gravimetric determination of total dissolved solids in milligrams per liter.

SUM - Determined by addition of analyzed constituents.

TABLE E-1

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER	DATE	TIME	TEMP	PH	EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER							
						L _A 3 FLD	L _A B FLD	CA	MG	NA	K	C _O 3 HC _O 3	S _O 4 CL	N _O 3 NO ₃	F	B	S _I O ₂	TDS SUM	T _H NCH
SMITH RIVER PLAIN			1-1.00	--	--	--	182	--	--	--	--	--	--	--	19	--	--	--	
16N/01W=02Q01 H	08/16/66	08/16/66	5050	--	7.0	194	12	9.7	14	0.5	0.0	101	1.5	8.7	0.9	--	0.1	--	113
16N/01W=15C01 H	08/09/66	08/09/66	5050	--	6.7	143	5.4	8.1	9.4	0.6	0.0	41	2.3	15	11	--	0.0	--	97
16N/01W=17K02 H	08/16/66	08/16/66	5050	--	6.7	416	9.4	22	29	0.9	0.0	50	5.9	39	85	--	0.1	--	90
16N/01W=20A02 H	08/16/66	08/16/66		--	--	--	223	--	--	--	--	--	--	--	--	--	--	--	72
17N/01W=02G01 H	08/08/66			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14
17N/01W=04J01 H	08/08/66			--	--	--	270	--	--	--	--	--	--	--	--	--	--	--	
17N/01W=14C02 H*	08/09/66			--	--	--	186	--	--	--	--	--	--	--	--	--	--	--	
18N/01W=05G01 H	08/09/66			--	--	--	171	--	--	--	--	--	--	--	--	--	--	--	
18N/01W=17R01 H	08/10/66	08/10/66	5050	--	--	--	215	--	--	2.7	--	0.0	212	--	6.7	--	--	--	191
				--	7.0	374	--	--	.12	--	3.48	--	0.19	--	--	--	--	--	17

* Published in previous reports as 17N-1W-1LCl

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

STATE	WELL NUMBER	TEMP	PH	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER						
					LAB	LAR	PERCENT REACTANCE	NO3	CO3	HC03	504	CL	TH	TDS		
DATE	LAB	FLD	CA	MG	NA	K						F	B	S102	SUM	
TIME	SAMPLER															
KLAMATH RIVER BASIN	1-2-00	--	7.1	453	21	20	25	1.4	0.0	120	21	23	--	0.1	--	
47N/02E-20C01 M	08/29/66 5050				1.05	1.64	1.09	.04	1.97	.44	.48	.37			246	
										60	13	15			133	
											11				35	
BUTTE VALLEY	1-3-00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
45N/01E-09C02 M	08/29/66 5050															
45N/02W-01P01 M	08/29/66 5050		--	--	178	--	--	--	--	--	--	--	--	--	--	
46N/01W-02F01 M	08/29/66 5050		--	--	257	--	--	--	--	--	--	20	--	--	--	
46N/02W-01P01 M	08/29/66 5050		--	8.2	401	20	16	42	2.4	0.0	226	7.2	3.6	8.9	--	
						1.00	1.32	1.83	.06		3.71	.15	.10	.14	--	
							24	31	.43	1	90	4	2	3	--	
46N/01W-17B01 M	08/29/66 5050		--	--	--	--	--	--	--	--	--	--	--	--	--	
46N/02W-25R02 M	08/29/66 5050		--	--	--	--	--	--	--	--	--	--	--	--	--	
47N/01E-06L01 M	04/27/66 5050		57 F	8.2	1140	21	22	220	.59	0.0	732	7.2	23	2.6	--	
					1105	1.05	1.81	9.57	5	12.00	.15	.65	.04		1.5	
47N/01E-07C01 M	04/27/66 5050		76 F	8.0	370	4.6	4.5	61	15	0.0	188	1.8	17	0.8	--	
					369	.23	.37	2.65	10	73	10	85	1	13		0.2
47N/01E-10C02 M	04/28/66 5050		76 F	8.4	280	6.5	6.3	41	13	4.0	147	4.0	8.9	0.3	--	
					282	.32	.52	1.78	.33	1.13	2.41	.08	.25		0.1	
47N/01E-32A01 M	05/25/66 5050		69 F	8.1	200	7.1	3.5	29	7.8	0.0	115	1.5	5.1	1.2	--	
					198	.35	.29	1.26	.20	1.89	.03	.14	.02		0.0	
47N/01E-32Q01 M	04/27/66 5050		56 F	8.1	459	24	15	49	8.6	0.0	261	9.4	11	2.2	--	
					448	1.20	1.23	2.13	.22	4.28	.20	.31	.04		0.1	
										25	26	45	5		--	
															287	
															121	
															0	

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE, WELL NUMBER DATE, LAB TIME, SAMPLER	TF, MP	PH LAB FLD	FC LAB FLD	MINERAL CONSTITUENTS IN PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					MILLIGRAMS PER LITER				
				C _A	Mg	Na	K	C _O 3	HCO ₃	S _O 4	Cl	N _O 3	F	B	S _I 0 ₂	T _O _S	T _H _{SUM}	N _C _H
BUTTE VALLEY	1-3.00																	
47N/01W-13L01 M 04/27/66 5050	52 F	8.1 8.4	198 205	5.4 .27	2.8 .23	33 11	8.8 1.44	0.0 .23	1.90 1.11	0.0 92	4.6 6	1.9 1	--	0.1 .13	--	122 113	25 0	
47N/01W-23H02 M 08/29/66 5050	--	--	248	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
47N/01W-35G01 M 04/27/66 5050	54 F	8.0 8.0	414 404	20 1.00	1.48 1.78	18 33	41 4	7.4 .19	0.0 4.02	245 93	3.6 .07	4.7 .13	--	0.1 .09	--	218 220	123 0	
47N/02W-16L01 M 05/25/66 5050	53 F	8.0 7.8	437 396	15 .75	7.4 .61	62 2.70	12 .31	0.0 0.0	260 4.26	0.0 0.04	1.3 1	0.0 0.04	--	0.3 .03	--	268 225	68 0	
48N/01E-30N01 M 05/25/66 5050	--	8.5	362	16	22	21	8.2	7.0	163	21	8.6	4.4	--	0.0 .07	--	210 188	130 0	
48N/01E-30P01 M 05/25/66 5050	--	8.6	396	21	17	37	9.4	8.0	218	8.2	5.0	1.3	--	0.1 .02	--	240 214	122 0	
48N/01E-31A01 M 05/25/66 5050	69 F	8.6 7.8	485 458	14 .70	8.5 .70	84 3.65	3.1 .08	1.1 0.37	247 4.05	27	6.5	1.1	--	0.2 .02	--	262 276	70 0	
48N/01E-31K01 M 05/25/66 5050	57 F	8.4 8.2	734 716	10 .50	7.3 1.89	33 4.87	22 .56	6.0 .20	4.9	25	1.6	1.5	--	0.3 .02	--	468 416	118 0	
48N/01W-24P01 M 05/25/66 5050	73 F	8.5 8.0	262 251	12 .60	7.3 1.05	33 1.44	6.8 .17	5.9 .20	145	7.9	2.6	0.0	--	0.0 .07	--	166 147	60 0	
48N/01W-25G01 M 05/25/66 5050	55 F	8.4 7.8	368 340	28 1.40	19 1.56	17 .74	5.0 .15	5.0 .17	188 3.08	23 .48	4.2 .12	0.5 .01	--	0.0 .01	--	210 195	150 0	
48N/01W-28C01 M 04/28/66 5050	59 F	7.9 7.2	338 325	27 1.35	21 1.73	11 .48	6.5 .17	0.0 3.49	213 9.96	3.1 2	2.2 .06	2.1 .03	--	0.0 .01	--	190 177	155 0	
48N/01W-28F01 M 04/28/66 5050	53 F	8.2 7.4	589 564	42 2.10	30 2.47	41 1.78	7.8 .20	0.0 5.95	363 2.21	10 .13	4.6 .15	9.4 .2	--	0.1 .15	--	348 323	227 0	

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP LAB FLD	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIEQUIVALENT PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM TH NCH				
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	F	B	S102	
BUTTE VALLEY																
48N/01W-28J01 M 05/24/66 5050	61 F 68 F 68 F 55 F	8.3 8.0 8.0 7.4	402 458 437 1330	33 20 1.00 2.15	1.65 1.40 1.15 4.3	1.04 1.14 2.22 73	24 51 24 154	0.0 0.0 .41 .77	236 274 4.49 12	12 7.2 .09 858	4.5 0.8 .20 .23	-- -- -- --	0.0 0.2 .01 .08	-- -- -- 0.1	216 215 248 783	151 110 0 0
48N/01W-34B01 M 04/28/66 5050																
48N/01W-36J01 M 05/25/66 5050																
SHASTA VALLEY																
42N/05W-20J01 M 08/14/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
42N/06W-10J01 M 08/15/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
43N/05W-02C01 M 08/14/66 5050	56 F 56 F	7.7 7.7	500 1.65	33 1.97	24 1.57	36 .09	0.0 .09	272 4.46	8.2 .17	17 .3	6.8 .11	-- .48	0.4 .2	-- --	292 262	183 0
44N/05W-32F01 M 08/14/66 5050	61 F 61 F	7.9 7.9	1260 --	-- --	120 5.22	-- --	0.0 0.0	548 8.99	-- --	150 4.23	-- --	-- --	-- --	-- --	420	0
44N/05W-34H01 M 08/14/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
44N/06W-22K01 M 08/14/66 5050	65 F 65 F	7.0 7.0	505 --	-- --	25 1.09	-- --	0.0 .420	256 .48	-- --	17 .48	-- --	-- --	-- --	-- --	203 0	--
45N/05W-06E01 M 08/14/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE C-1 (continued)
MINERAL ANALYSES OF GROUND WATER

STATE	WELL NUMBER	DATE	LAB	EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER								
					TEMP	LAH FLD	LAB FLD	CA	MG	NA	K	PERCENT REACTANCE	VALUE	CL	NO3	F	B	SIO2	TDS
SCOTT RIVER VALLEY	1-5.00	08/17/66	43N/09W-02G01 M	--	--	--	517	--	--	--	--	--	--	--	--	--	--	--	--
		08/17/66	43N/09W-04F01 M	--	--	--	131	--	--	--	--	--	--	--	--	--	--	--	--
		08/17/66	43N/09W-24F01 M	56 F	7.6	503	--	--	4.8	--	0.0	323	--	1.0	--	--	--	--	270
		08/17/66	43N/09W-24F02 M	56 F	8.0	448	45	2.25	2.47	0.09	0.8	0.0	273	.6	1.8	--	0.1	--	223
		08/17/66	43N/09W-28D02 M	56 F	8.0	448	47	51	2	.02	4.48	.10	93	2	1	.19	--	230	237
		08/17/66	43N/09W-35G01 M	85 F	6.6	74	7.7	2.4	2.0	0.8	0.0	39	1.0	.05	3.5	--	0.1	--	49
		08/17/66	43N/09W-35G02 M	85 F	6.6	74	38	.20	.10	.02	.64	.02	.88	3	.01	.06	--	38	29
		08/17/66	43N/09W-35G03 M	54	29	14	54	29	14	3				1				0	
			HAYFORK VALLEY																
			31N/12W-12L01 M	--	--	--	222	--	--	--	--	--	--	--	--	--	--	--	
			31N/12W-15K01 M	62 F	--	--	275	2.0	2.4	--	8.7	--	--	--	5.9	--	--	--	
			32N/11W-35G01 M	61 F	--	--	395	2.45	4.9	--	13	--	--	--	.73	--	--	--	
			MAD RIVER VALLEY																
			05N/01E-04H03 M *	--	--	--	400	--	--	--	--	--	--	--	--	--	--	--	
			05N/01E-08J01 M	--	--	--	364	--	--	--	--	--	--	--	--	--	--	--	

* Published in previous reports as 5N-1E-4H2

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER DATE LAB TIME SAMPLER	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN				MILLIGRAMS PER LITER				MILLIGRAMS PER LITER			
				K	MG	NA	CD ₃	HC ₀₃	SO ₄	CL	NO ₃	F	B	SiO ₂	TDS SUM
MAD RIVER VALLEY															
06N/01E-07M01 H 07/22/66 5050	--	6.7	617	52	38	15	--	0.0	304	--	31	--	--	--	287 38
06N/01E-08M01 H 07/22/66 5050	--	--	206	--	--	--	--	--	.87	--	--	--	0.0	--	--
06N/01E-17D01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06N/01E-19Q01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06N/01E-30N01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06N/01E-32F01 H 11/03/66	--	7.6	742	6.9	15	123	7.5	0.0	279	3.3	88	1.7	--	0.5	424 383 0
06N/01W-01H01 H 07/22/66	--	--	--	.34	1.23	5.35	.19	4.56	.07	2.48	.03	--	--	--	--
07N/01E-30B01 H 07/22/66 5050	--	7.2	117	--	--	12	--	0.0	26	--	13	--	--	--	25 4
EUREKA PLAIN															
1-9.00															
05N/01E-18Q01 H 07/22/66 5050	--	8.1	856	--	--	148	--	0.0	339	--	110	--	--	--	102 0
05N/01E-20Q01 H 07/22/66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE	WELL NUMBER	TEMP	PH LAB FLD	EC LAB FLD	MINERAL CONSTITUENTS IN			MILLIEQUIVALENT PER LITER			MILLIGRAMS PER LITER								
					CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	N03	F	B	S102	TDS SUM	TH NCH	
EEL RIVER VALLEY	1-10.00	--	8.3	501	--	--	9.0	--	0.0	262	--	.8	--	--	--	--	246	31	
02N/01W-04001 H 07/21/66 5050																			
02N/01W-07F01 H 07/26/66					--	--	--	--	--	--		--	--	--	--	--	--	--	
03N/01W-30N01 H 07/26/66					--	--	--	--	--	--		--	--	--	--	--	--	--	
03N/02W-02A02 H 07/26/66 5050					--	8.0	1890	70	71	158	2.8	0.0	66	16	539	3.6	--	977	468
03N/02W-27G01 H 07/26/66 5050					--	7.8	4090	150	157	348	78	0.0	432	75	1020	1.5	--	893	414
03N/02W-35M01 H 07/26/66 5050					--	7.8	994	38	46	85	13	0.0	273	31	159	4.6	--	2650	1020
ROUND VALLEY	1-11.00	--																	
22N/12W-06L02 H 09/16/66					--	7.4	453	49	21	17	0.8	0.0	284	0.0	1.8	2.7	--	0.2	--
22N/12W-19F01 H 09/16/66					--	--	--	--	--	--	--	--	--	--	--	--	--	--	
22N/13W-01J03 H 09/16/66					--	8.2	223	23	8.4	9.3	0.9	0.0	117	9.7	1.8	0.5	--	0.1	--
22N/13W-12K01 H 09/16/66					--	8.3	263	19	15	14	0.6	0.0	136	12	6.4	2.2	--	0.1	--
22N/13W-13A01 H 09/16/66					--	8.3	282	--	--	--	--	--	--	--	11	6.2	--	--	

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

STATE WELL NUMBER	DATE	LAR	TIME	LAB	EC	MINERAL CONSTITUENTS IN					MILLIGRAMS PER LITER					TDS					
						FLO	LAB	CA	MG	NA	K	CO ₃	MC ₃	SO ₄	CL	NO ₃	F	B	SIO ₂	TH	NCH
ROUND VALLEY			1-11.00			--	--	--	--	--	--	--	--	--	--	--	--	--	--		
23N/12W-31N01	W	09/16/66				--	--	242													
23N/12W-33L01	W	09/16/66				--	8.7	588	63	32	28	0.6	28	355	0.0	3.7	4.4	--	0.1	--	
									3.14	2.63	1.22	.02	.93	5.82	.10	.07			347	289	
									45	38	17		1.3	84	1	1				334	0
23N/13W-25P01	W	09/16/66				--	--	239													
23N/13W-36P02	W	09/16/66				--	8.0	250	22	16	6.6	0.6	0.0	137	3.8	2.4	1.1	--	0.0	--	
									1.10	1.32	.29	.02	2.25	.08	.07	.18			140	120	
									40	48	11	1	87	3	3	7			130	8	
LITTLE LAKE VALLEY			1-13.00																		
18N/13W-08L01	W	09/19/66				--	8.3	271	14	15	18	1.0	0.0	123	11	9.0	5.2	--	0.2	--	
									.70	1.23	.78	.03	2.02	.23	.25	.08			156	96	
									26	45	28	1	78	9	10	3			134	0	
18N/13W-16M01	W	09/19/66				--	8.3	289	19	10	26	0.8	0.0	128	0.5	26	1.7	--	4.0	--	
									.95	.82	1.13	.02	2.10	.01	.73	.03			180	90	
									33	28	39	1	73	1	25	1			151	0	
18N/13W-20M03	W	09/19/66				--	8.3	196	20	9.7	7.9	0.6	0.0	112	2.6	4.2	1.2	--	0.1	--	
									1.00	.80	.34	.02	1.84	.05	.12	.02			119	90	
									46	37	16	1	91	2	6	1			101	0	

TABLE E-2
TRACE ELEMENT ANALYSES OF GROUND WATER
NORTH COASTAL AREA

State Well Number (MDB & M)	Date	Constituents in parts per million						
		Al	As	Cu	Fe (Total)	Pb	Mn	Zn

SMITH RIVER PLAIN (1-1)

46N/1W- 2Q1^a 8-16-66 6.3

KLAMATH RIVER VALLEY (1-2)

47N/2E-20C1 8-29-66 0.00

BUTTE VALLEY (1-3)

45N/1E- 9C2	8-29-66	0.00	0.00	0.00	0.01	0.00	0.00	0.00
45N/2W- 1P1	8-29-66	0.01	0.00	0.00	0.15	0.00	0.00	0.00
46N/1W- 2F1	8-29-66		0.00					
46N/1W-17B1	8-29-66	0.01	0.00	0.00	0.00	0.00	0.00	0.00
46N/2W-25R2	8-29-66	0.02	0.03	0.00	0.30	0.00	0.00	0.00
47N/1E- 6L1	4-27-66		0.00					
47N/1E- 7C1	4-27-66		0.00					
47N/1E-10C2	4-28-66		0.00					
47N/1E-32A1	5-25-66	0.00	0.00	0.00	0.04	0.00	0.03	0.00
47N/1E-32Q1	4-27-66		0.00					
47N/1W-13L1	4-27-66		0.00					
47N/1W-23H2	8-29-66	0.04	0.00	0.01	0.85	0.00	0.00	0.19
47N/1W-35Q1	4-27-66		0.00					
47N/2W-16L1	5-25-66	0.05	0.00	0.09	3.1	0.00	0.03	0.00
47N/2W-21H2	2-15-66		0.00					

^a (HB & M)

TABLE E-2 (Continued)
 TRACE ELEMENT ANALYSES OF GROUND WATER
 NORTH COASTAL AREA

State Well Number (MDB & M)	Date	Constituents in parts per million						
		Al	As	Cu	Fe (Total)	Pb	Mn	Zn

BUTTE VALLEY (cont.)

48N/1E-26J1	2-15-66		0.01					
48N/1E-30N1	2-15-66		0.07					
48N/1E-30N1	5-25-66		0.07					
48N/1E-30P1	5-25-66		0.01					
48N/1E-31A1	5-25-66	0.00	0.02	0.02	0.02	0.00	0.02	0.00
48N/1E-31K1	4-28-66		0.01					
48N/1W-24P1	5-25-66	0.00	0.02	0.01	0.03	0.00	0.02	0.00
48N/1W-25Q1	5-25-66	0.00	0.06	0.01	0.17	0.00	0.01	0.02
48N/1W-28C1	4-28-66		0.00					
48N/1W-28F1	4-28-66		0.01					
48N/1W-28J1	5-24-66	0.00	0.01	0.00	0.04	0.00	0.01	0.00
48N/1W-34B1	4-28-66		0.00					
48N/1W-36J1	5-25-66	0.00	0.02	0.03	0.04	0.00	0.08	0.00

HAYFORK VALLEY (1-6)

32N/11W-25G1	8- 2-66	0.00
--------------	---------	------

ROUND VALLEY (1-11)

22N/12W- 6L2	9-16-66	2.1
22N/13W-12K1	9-16-66	0.83
22N/13W-13A1	9-16-66	0.02

TABLE E-2 (Continued)
TRACE ELEMENT ANALYSES OF GROUND WATER
NORTH COASTAL AREA

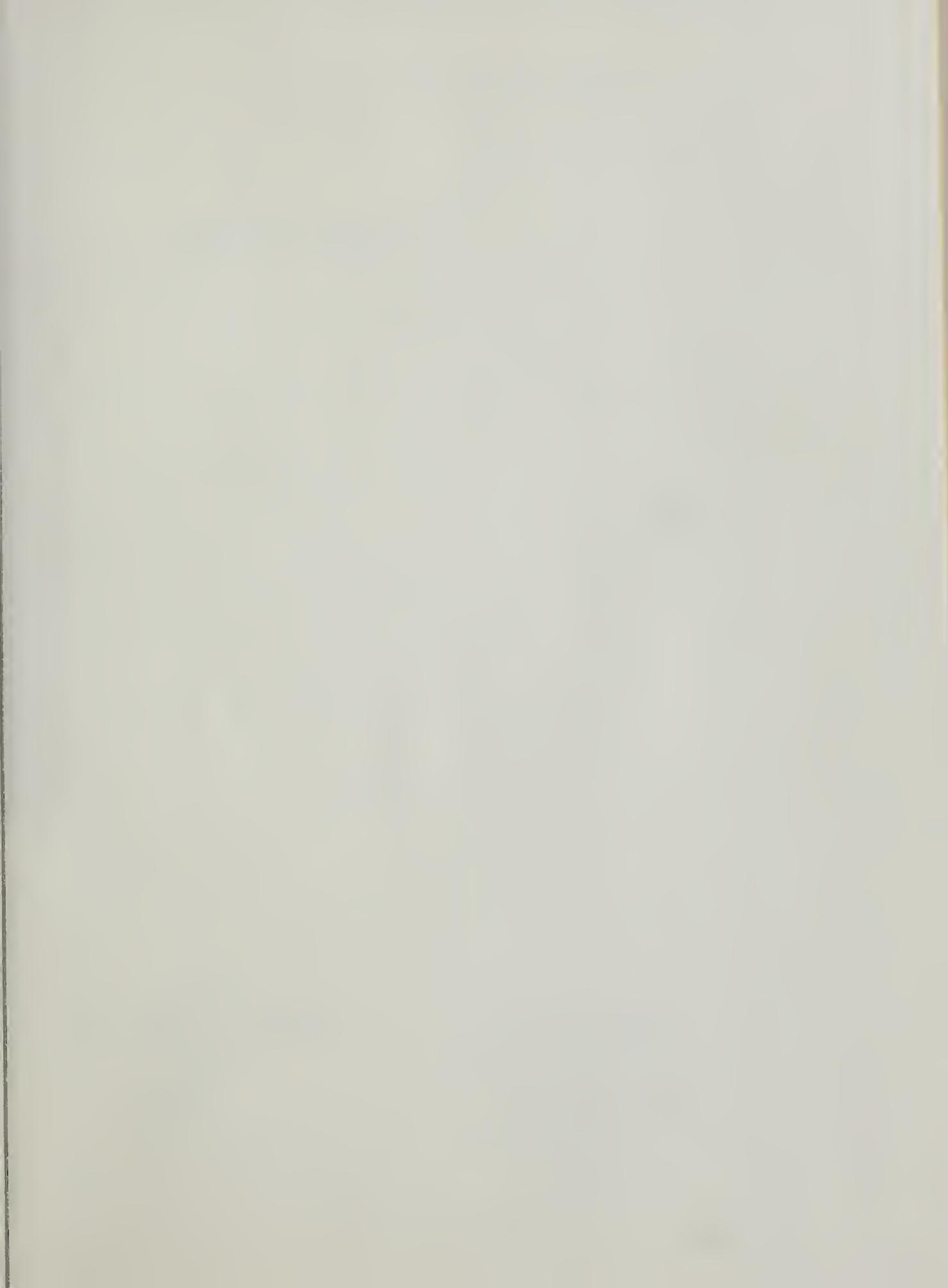
State Well Number	Date	Constituents in parts per million						
		Al	As	Cu	Fe (Total)	Pb	Mn	Zn

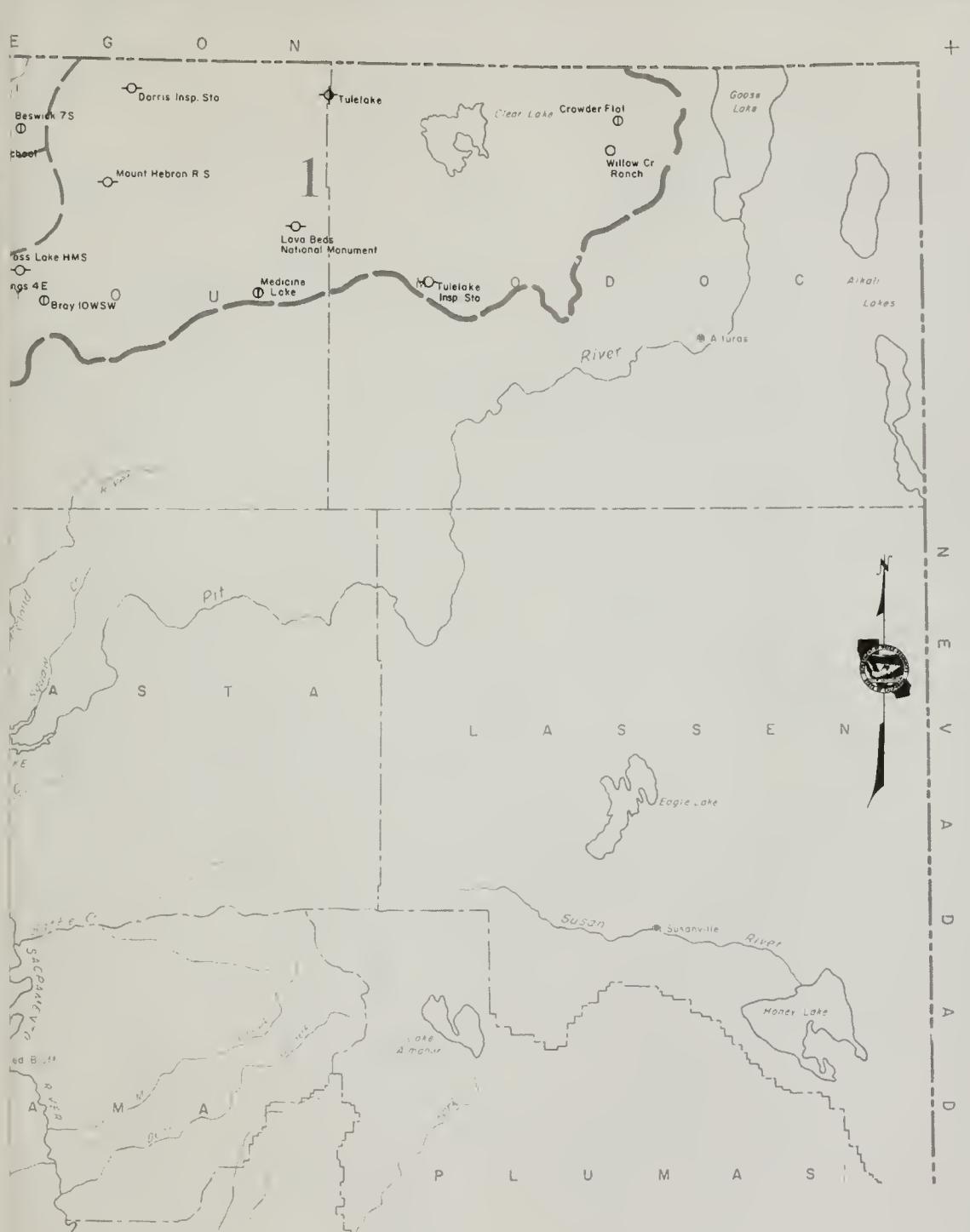
ROUND VALLEY (cont.)

23N/12W-33L1	9-16-66	1.0
23N/13W-36P2	9-16-66	0.00

LITTLE LAKE VALLEY (1-13)

18N/13W- 8L1	9-19-66	0.20
18N/13W-16M1	9-19-66	0.10
18N/13W-20H3	9-19-66	4.7





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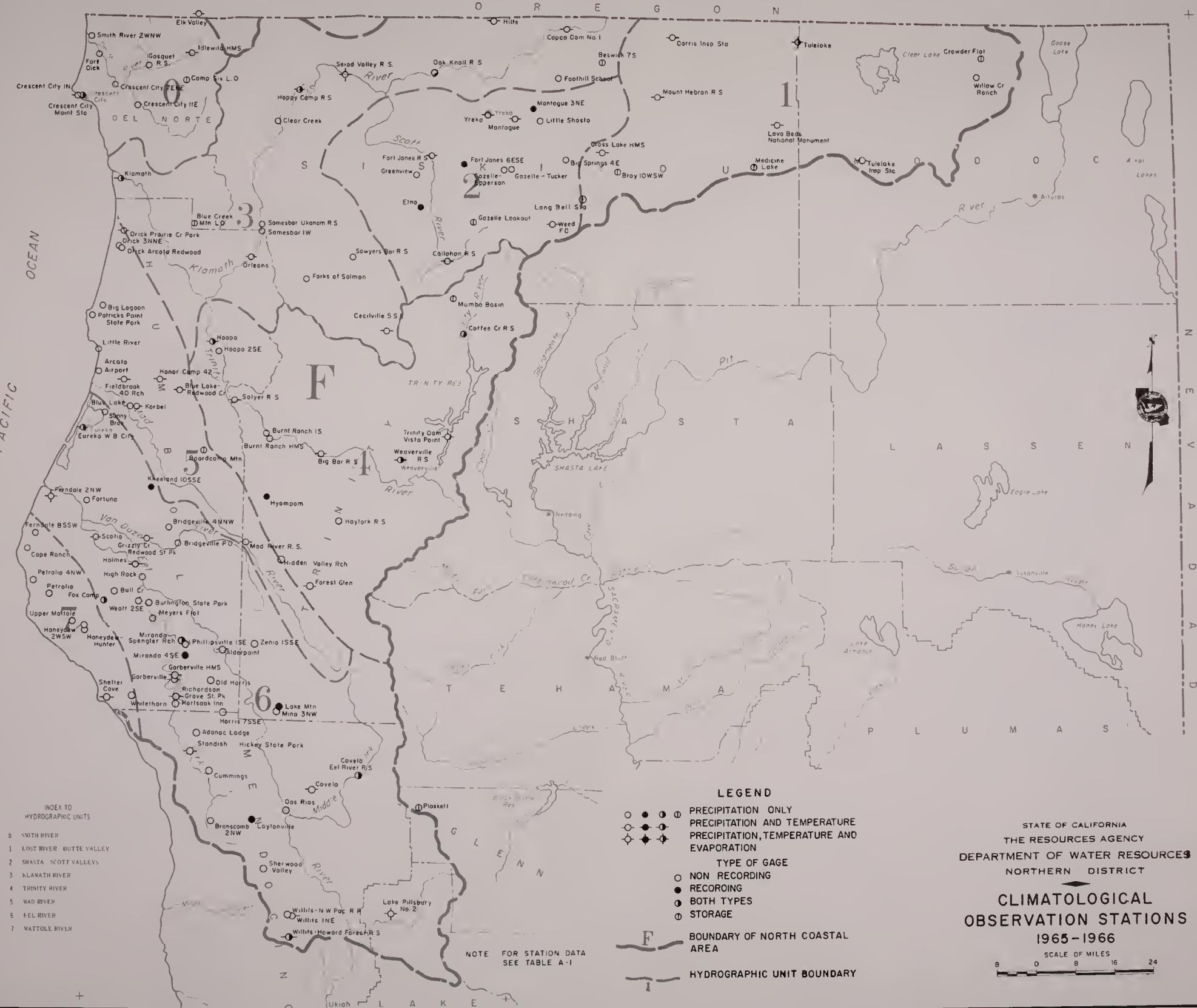
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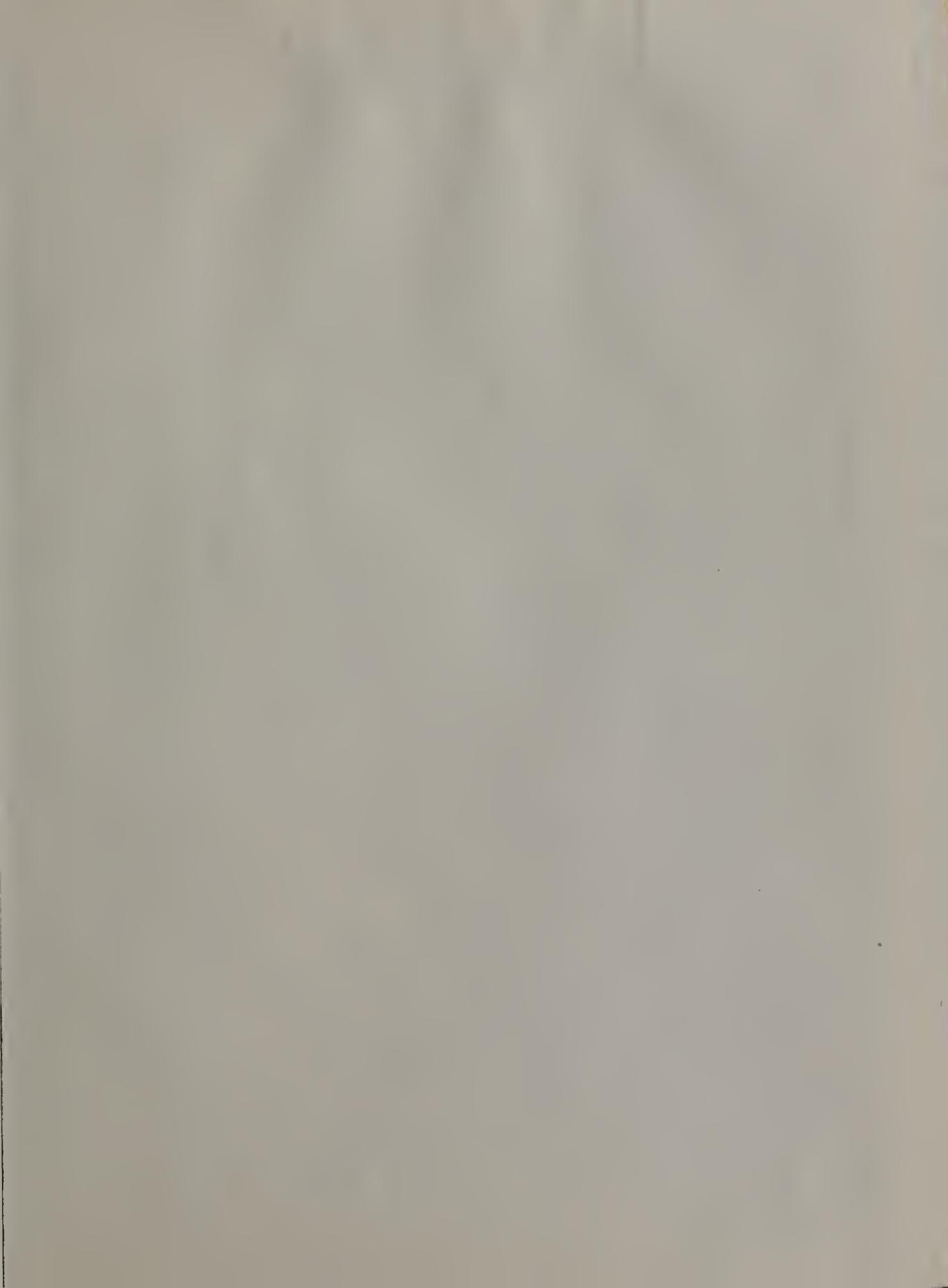




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